

SHRI RAM COLLEGE

FACULTY OF BIOSCIENCE

Statement of Purpose

The UG and PG degree in Biotechnology & Microbiology consists of a series of Bioscience foundation courses followed by advanced courses that survey a range of biotechnological and microbiological sub-disciplines. These include courses focused on the interaction between biological organisms and human disease, such as infectious diseases, medical microbiology, and immunology, plant biotechnology, animal biotechnology but also courses that investigate the role of biotechnological and microbiological approaches in the environment including environmental microbiology, environmental biotechnology, microbial ecology and industrial microbiology, Industrial biotechnology. From bioremediation to virology, students will develop an understanding of biological and chemical systems of organisms — and develop a foundation for a career in a range of professions that involve biotechnology & microbiology.

Programme offered

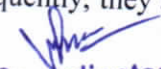
- P1: B.Sc. Biotechnology (3 yrs Annual)
- P2: B.Sc. Microbiology (3 years Annual)
- P3: M.Sc. Biotechnology (2 years consisting of 4 semester)
- P4: M.Sc. Microbiology (2 years consisting of 4 semester)

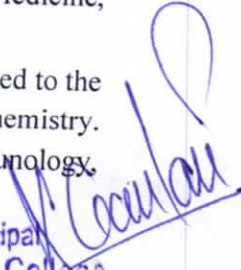
Programme Outcomes (POs), Programme specific outcomes (PSOs) and Course outcomes (COs)

PROGRAMME 1 (P1): B.Sc. Biotechnology

Programme Outcomes (POs)

- The students acquire strong theoretical background along with necessary skills and techniques in biological sciences and have the ability to use these tools in industry, hospitals, community and institutes or any other profession they would like to pursue.
- By studying the components of living cells, students can learn how to control, fix and modify them to our benefit. This knowledge has already lead to the creation and manufacture of various products that help in the diagnosis and treatment of diseases (e.g. the production of antibiotics, insulin, and other genetically engineered medicines such as safer recombinant vaccines). Biotechnology is also playing a role in providing services in the areas like healthcare, food, agriculture, energy and the environment.
- Biotechnology assimilates in itself a number of disciplines. There is a great demand for biotechnologists in countless diversified industries and sectors such as, Agriculture, Animal Husbandry, Environmental Conservation, Genetic Engineering, Health Care, Medicine, Industrial Research and Development.
- The curriculum is designed in such a way that in the first year the students are exposed to the fundamental aspects of plant science, animal science, microbial world and chemistry. Subsequently, they are made to learn specialized aspects such as enzymology, immunology,


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bacteriology, tissue culture, genetic engineering etc along with practical applications. During the final year the students are supposed to work on the project of practical application. They are also introduced to the conservation aspects of biodiversity and business entrepreneurial skills.

- The students who have acquired a graduate degree in biotechnology can easily find a suitable position in a number of industries engaged in processing and developing agricultural and biological products, bio-processing, pharmaceuticals and chemicals.
- Academic performance evaluation of a student is according to a CCS Meerut University examination scheme (internal and external).

Programme Specific Outcomes (PSO)

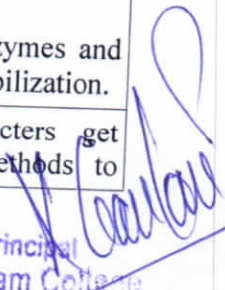
After successful completion of program the Graduates will be able to ;

- Pursue higher education (PG) from India or abroad.
- Identify and formulate healthcare, textile, cosmetics, agriculture, marine products.
- Understand biology, mechanism, and dynamics and work on laboratory techniques involving microorganisms, plants and animals tissues.
- Developing many useful products for human and cleaning the environment.

Course outcome (COs)

	Course	Course Outcome
CO1	Cell Biology	This course presents the types and structural details of the basic unit by which all the living things are made of (the cell). Goals: To make the student to understand the concept of cell and their activities and molecular signaling.
CO2	Bioinstrumentation	Enable the student to get sufficient knowledge in principles and applications of bio instruments.
CO3	Microbiology	This course presents the study of Micro organisms. Goals: To make the student to understand Micro organisms and their participation in day to day activities. Objectives: On successful completion of the subject the student should have understood the role of microorganisms in the diversity
CO4	Biochemistry	This course presents the chemical reactions or metabolic functions in the living system and their regulations. Goals: To make the student to understand the concept of biochemical regulations. Objectives: On successful completion of the subject the student should have understood: Basic biomolecules, viz protein fats, enzymes and their relevance to biological molecular stabilization.
CO5	Genetics	This course presents the way characters get transferred through generations and methods to


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		analyze and modify them. Goals: To make the student to understand the concept of genes and their behaviour Objectives: On successful completion of the subject the student should have understood: Basic genetics and their role.
CO6	Molecular Biology	This course presents the genetics at molecular level Goals: On successful completion of the subject the student should have understood the molecular aspects of Molecular biology
CO7	Plant and Animal Biotechnology	This course presents the application of Plants and animals in Biotechnology Goals: To make the student to understand usage of Plant and Animal products and exploitation of them in Biotechnology. Objectives: On successful completion of the subject, the student should have understood: Crop development, Callus culture, Biotechnological applications of plants, Animal tissue culture, Animal products, production & improvement of them
CO8	Immunology	This course presents the basic defense mechanism of animals Goals: To make the student to understand the concept immunology Objectives: On successful completion of the subject the student should have understood: Immunity, Antigen, Antibody, Cells of immune system and their function and regulations
CO9	Environmental Biotechnology	This course presents the Study and the Management of the Environment Goals: To make the student to understand Ecology and Conservation of the Environment Objectives: On successful completion of the subject the student should have understood Ecosystem, energy flow and Uses and values of Biodiversity.
CO10	Recombinant DNA technology (RDT)	This course presents the mechanism of gene manipulation Goals: To make the student to understand the concept of gene manipulation and gene transfer technologies Objectives: On successful completion of the subject, the student should have understood: Manipulation of genes, Transfer techniques, Expression systems and methods of selection
CO11	Plant Physiology	This course presents the study of plant physiological parameters and process by which they generate food.

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		water, oxygen etc. Goals: To make the students to understand various physiological life processes in plants. Objectives: On successful completion of the subject, student should have understand various plant functions and their processes by using different apparatus and instruments
CO12	Animal Physiology	This course presents the study of mammalian systems, physiology, growth and development and basic physiological functions Goals: To make the students to understand various physiological life processes in humans. Objectives: On successful completion of the subject, student should have understand various animal functions and their processes by using different apparatus and instruments
CO13	Industrial Biotechnology	This course presents the utility of Microbes Goals: To make the student to understand the applications of Microbes Objectives: On successful completion of the subject the student should have understood: Fermentation, Microbial products, Vaccine and antibiotics.
CO14	Biodiversity	This course presents the principles Components of Biodiversity (Ecosystem, Genetic and Species diversity) - Assigning values to biodiversity - Species concepts - Animal diversity: (Distribution, inventory, species richness) - Biodiversity Hotspots (Western Ghats, Indo-Burma region).
CO15	Genomics, proteomics and bioinformatics	This paper presents the basics of: mapping, Genome sequencing, Genome sequence assembly: Base calling and assembly programs, Genome annotation: Gene ontology, Automated genome annotation, Annotation of hypothetical proteins and Genome economy. Comparative genomics: Whole genome alignment, Finding a minimal genome, Lateral gene transfer, Within-genome approach and Gene order and Gene.
CO16	Biosafety, IPR & ED	Subject Description : This course deals with the study of industrial safety, various safety measures and its applications. It also gives emphasis on prevention and control methods. Knowledge about IPR and entrepreneurship development is provided. Goals Students get on idea about the advantages and disadvantages of occupational & Industrial safety applications, principles & functions in safety management. Objectives : To impart knowledge on various occupational health

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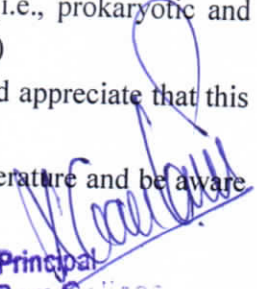
		hazards and also safety measures to be taken in the work place.
CO17	Biophysics and Chemistry	This course presents the principles and applications of Biotechnology explaining the biomolecules and applications of biophysical methods. Goals : To enable the students to learn the immuno techniques and radio labeling techniques. Objectives: On successful completion of the course the students will be aware of 1. Microscopic techniques 2. Electro physiological methods. 3. Biomolecules structure determination using x- ray diffraction
CO18	Enzyme and Enzyme engineering	Students will be able to extend their study in enzymology with respect to identification and purification of enzyme. Goals: They will be able to describe and generalize the role of co enzyme in enzyme catalysis. Also, they will be able to interrelate between anabolism and catabolism. Objectives: Students will be able to elaborate their study about bioenergetics.

PROGRAMME 2: B.Sc. Microbiology

Programme Outcomes (POs)

- Students will be able to communicate scientific information effectively, especially relating to microbiological organisms, and the roles of microbial organisms in ecosystem function and health-related issues
- Students will be able to collect, analyze and interpret scientific data, including developing a familiarity with microbiology laboratory techniques and safety procedures
- Students will develop proficiency in the quantitative skills necessary to analyze biological problems (e.g., arithmetic, algebra, dimensional analysis, and statistical analysis as applied to biology), with a knowledge of specialized techniques used in microbiology
- Students will be able to apply the scientific method as a demonstration that they understand its application furthering our knowledge of the microbial world
- Students will be able to describe fundamental principles of biology e.g., central dogma, diversity of life, inheritance and how these principles relate to microorganisms
- Students will be able to describe unique microbial genetic systems (i.e., prokaryotic and viral genomes, lateral gene transfer, plasmid structure and function, etc.)
- Students will appreciate the biological diversity of microbial forms, and appreciate that this diversity results from evolutionary processes
- Students will be able to access and interrogate the primary scientific literature and be aware of leading journals in the field of microbiology


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- Students will be able to synthesize material from lower division courses across a biological sub-discipline and apply this to advanced course material (i.e., a Capstone experience); specifically, students will draw from their learning experiences in the fields of microbial ecology & evolution, microbial physiology, bioremediation, immunology, etc., as related to the topic of their capstone course
- Students will gain familiarity with the unique role of microbes play in genetic modification technologies (i.e., creation of GMOs, industrial applications, gene therapy, etc.)
- Students will gain familiarity with the role of microbes in human disease, the role of microbes in issues of international health, and the human immune response to microbial infection
- Students will gain familiarity with the role of microbes in the context of ecosystem function (e.g., microbial ecology, microbiome, etc.)

Programme Specific Outcomes (PSO)

After successful completion of program the Graduates will be able to ;

- Pursue higher education (PG) from India or abroad.
- Identify and formulate healthcare, textile, cosmetics, agriculture, marine products.
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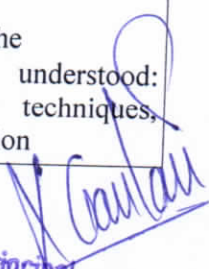
	Course	Outcome
CO1	Ultrastructure of cell and cell reproduction & differentiation	This course presents the types and structural details of the basic unit by which all the living things are made of (the cell). Goals: To make the student to understand the concept of cell and their activities and molecular signaling.
CO2	Bioinstrumentation and Microbial technique	Enable the student to get sufficient knowledge in principles and applications of bio instruments.
CO3	Fundamental of Microbiology	This course presents the study of Micro organisms. Goals: To make the student to understand Micro organisms and their participation in day to day activities. Objectives: On successful completion of the subject the student should have understood the role of microorganisms in the diversity
CO4	Biochemistry, Microbial metabolism and Microbial physiology	This course presents the chemical reactions or metabolic functions in the living system and their regulations. Goals: To make the student to understand the concept of biochemical regulations. Objectives: On successful completion of the subject the student should have understood: Basic biomolecules, viz protein fats, enzymes and their

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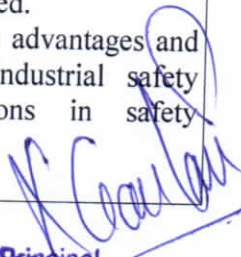
		relevance to biological molecular stabilization.
CO5	Microbial Genetics	This course presents the way characters get transferred through generations and methods to analyze and modify them. Goals: To make the student to understand the concept of genes and their behaviour Objectives: On successful completion of the subject the student should have understood: Basic genetics and their role.
CO6	Molecular Biology	This course presents the genetics at molecular level Goals: On successful completion of the subject the student should have understood the molecular aspects of Molecular biology
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CO9	Environmental Microbiology	This course presents the Study and the Management of the Environment Goals: To make the student to understand Ecology and Conservation of the Environment Objectives: On successful completion of the subject the student should have understood Ecosystem, energy flow and Uses and values of Biodiversity.
CO10	Recombinant DNA technology (RDT)	This course presents the mechanism of gene manipulation Goals: To make the student to understand the concept of gene manipulation and gene transfer technologies Objectives: On successful completion of the subject, the student should have understood: Manipulation of genes, Transfer techniques, Expression systems and methods of selection


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CO11	Botany	This course presents the study of plant physiological parameters and process by which they generate food, water, oxygen etc. Goals: To make the students to understand various physiological life processes in plants. Objectives: On successful completion of the subject, student should have understand various plant functions and their processes by using different apparatus and instruments
CO12	Zoology	This course presents the study of mammalian systems, physiology, growth and development and basic physiological functions Goals: To make the students to understand various physiological life processes in humans. Objectives: On successful completion of the subject, student should have understand various animal functions and their processes by using different apparatus and instruments
CO13	Industrial Microbiology	This course presents the utility of Microbes Goals: To make the student to understand the applications of Microbes Objectives: On successful completion of the subject the student should have understood: Fermentation, Microbial products, Vaccine and antibiotics.
CO14	Microbial diversity	This course presents the principles Components of Biodiversity (Ecosystem, Genetic and Species diversity) - Assigning values to biodiversity - Species concepts - Animal diversity: (Distribution, inventory, species richness) - Biodiversity Hotspots (Western Ghats, Indo-Burma region).
CO15	Genomics, proteomics and bioinformatics	This paper presents the basics of: mapping, Genome sequencing, Genome sequence assembly: Base calling and assembly programs, Genome annotation: Gene ontology, Automated genome annotation, Annotation of hypothetical proteins and Genome economy. Comparative genomics: Whole genome alignment, Finding a minimal genome, Lateral gene transfer, Within-genome approach and Gene order and Gene.
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		To impart knowledge on various occupational health hazards and also safety measures to be taken in the work place.
CO17	Biophysics	This course presents the principles and applications of Biotechnology explaining the biomolecules and applications of biophysical methods. Goals : To enable the students to learn the immuno techniques and radio labeling techniques. Objectives: On successful completion of the course the students will be aware of 1. Microscopic techniques 2. Electro physiological methods. 3. Biomolecules structure determination using x- ray diffraction
CO18	Enzyme and Enzyme engineering	Students will be able to extend their study in enzymology with respect to identification and purification of enzyme. Goals: They will be able to describe and generalize the role of co enzyme in enzyme catalysis. Also, they will be able to interrelate between anabolism and catabolism. Objectives: Students will be able to elaborate their study about bioenergetics.

Programme 3 (P3): M.Sc. Biotechnology

Programme Outcome (POs)

- Students will be able to define and explain major concepts of biological sciences.
- Students will be able to correctly use biological instrumentation and proper laboratory techniques.
- Students will be able to recognize the relationship between structure and functions at all levels that is molecular, cellular and organism.
- Students will be able to conduct experiments using skills appropriate to subdivisions
- Students will be able to evaluate, interpret practical data and infer appropriate results supported by the collected data.
- Students will be able to critically evaluate primary literature, in oral and written form and subsequently develop oral and written communication skills.
- Exposure provided to the students during the programme duration would help them gain awareness of career options in the biological sciences.
- Students will develop an ability to function effectively in multidisciplinary teams for accomplishment of set goals.
- Students will be able to expand their learning horizons through use of multidimensional learning resources to keep themselves at par with the pace of scientific development worldwide.
- Students will demonstrate an understanding of the impact of science on society and an ability to engage in lifelong learning.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- Students will be able to design, conduct experiments, analyze and interpret data for investigating problems in Biotechnology and allied fields.
- Demonstrate proficiency in basic science and foundation biotechnology course.
- Demonstrate a working knowledge of advanced biological sciences.

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- Demonstrate competence in application of engineering principles to biological systems.
- Demonstrate an ability to appear for National level examination to pursue higher studies.
- Demonstrate practical and theoretical knowledge essential for pursuing higher studies.
- Several career opportunities are available for students with biotechnology background abroad especially in countries like Germany, Australia, Canada, USA and many more where biotechnology is a rapidly developing field after pursuing their higher education.
- Demonstrate an ability to identify careers in biotechnology, domain like Pharmaceutical, Food Industry etc, and skills required to work in a biotechnology laboratory or manufacturing facility. Some of the major pharmaceutical and drug companies' hiring biotechnological professionals include Dabur, Ranbaxy, Hindustan Lever and Dr Reddy's Labs, food processing industries, chemical industry and textile industry as well. Beside this industries also employ bio- technological professionals in their marketing divisions to boost up business in sectors where their products would be required.
- Entrepreneurship ventures such as consultancy and training centres can be opened

Course outcome (COs)

	Course	Outcome
CO1	Cell Biology	This course presents the types and structural details of the basic unit by which all the living things are made of (the cell). Goals: To make the student to understand the concept of cell and their activities and molecular signaling.
CO2	Bioinstrumentation	Enable the student to get sufficient knowledge in principles and applications of bio instruments.
CO3	Microbiology	This course presents the study of Micro organisms. Goals: To make the student to understand Micro organisms and their participation in day to day activities. Objectives: On successful completion of the subject the student should have understood the role of microorganisms in the diversity
CO4	Biochemistry	This course presents the chemical reactions or metabolic functions in the living system and their regulations. Goals: To make the student to understand the concept of biochemical regulations. Objectives: On successful completion of the subject the student should have understood: Basic biomolecules, viz protein fats, enzymes and their relevance to biological molecular stabilization.
CO5	Genetics	This course presents the way characters get transferred through generations and methods to analyze and modify them. Goals: To make the student to understand the concept of genes and their behaviour Objectives: On successful completion of the subject the student should have understood: Basic genetics and their role.
CO6	Molecular Biology	This course presents the genetics at molecular level

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		Goals: On successful completion of the subject the student should have understood the molecular aspects of Molecular biology
CO7	Plant and Animal Biotechnology	This course presents the application of Plants and animals in Biotechnology Goals: To make the student to understand usage of Plant and Animal products and exploitation of them in Biotechnology. Objectives: On successful completion of the subject, the student should have understood: Crop development, Callus culture, Biotechnological applications of plants, Animal tissue culture, Animal products, production & improvement of them
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CO10	Recombinant DNA technology (RDT)	This course presents the mechanism of gene manipulation Goals: To make the student to understand the concept of gene manipulation and gene transfer technologies Objectives: On successful completion of the subject, the student should have understood: Manipulation of genes, Transfer techniques, Expression systems and methods of selection
CO11	Plant Physiology	This course presents the study of plant physiological parameters and process by which they generate food, water, oxygen etc. Goals: To make the students to understand various physiological life processes in plants. Objectives: On successful completion of the subject, student should have understand various plant functions and their processes by using different apparatus and instruments
CO12	Animal Physiology	This course presents the study of mammalian systems, physiology, growth and development and

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Programme 4 (P4): M.Sc. Microbiology

Programme Outcome (POs)

- Students will be able to define and explain major concepts of biological sciences.
- Students will be able to correctly use biological instrumentation and proper laboratory techniques.
- Students will be able to recognize the relationship between structure and functions at all levels that is molecular, cellular and organism.
- Students will be able to conduct experiments using skills appropriate to subdivisions
- Students will be able to evaluate, interpret practical data and infer appropriate results supported by the collected data.
- Students will be able to critically evaluate primary literature, in oral and written form and subsequently develop oral and written communication skills.
- Exposure provided to the students during the programme duration would help them gain awareness of career options in the biological sciences.
- Students will develop an ability to function effectively in multidisciplinary teams for accomplishment of set goals.
- Students will be able to expand their learning horizons through use of multidimensional learning resources to keep themselves at par with the pace of scientific development worldwide.
- Students will demonstrate an understanding of the impact of science on society and an ability to engage in lifelong learning.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- Students will be able to design, conduct experiments, analyze and interpret data for investigating problems in Microbiology and allied fields.
- Demonstrate proficiency in basic science and foundation biotechnology course.
- Demonstrate a working knowledge of advanced biological sciences.
- Demonstrate competence in application of engineering principles to biological systems.
- Demonstrate an ability to appear for National level examination to pursue higher studies.
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- Several career opportunities are available for students with biotechnology background abroad especially in countries like Germany, Australia, Canada, USA and many more where biotechnology is a rapidly developing field after pursuing their higher education.
- Demonstrate an ability to identify careers in biotechnology, domain like Pharmaceutical, Food Industry etc, and skills required to work in a biotechnology laboratory or manufacturing facility. Some of the major pharmaceutical and drug companies' hiring biotechnological professionals include Dabur, Ranbaxy, Hindustan Lever and Dr Reddy's

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Labs, food processing industries, chemical industry and textile industry as well. Beside this industries also employ bio- technological professionals in their marketing divisions to boost up business in sectors where their products would be required.

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Course outcome (COs)

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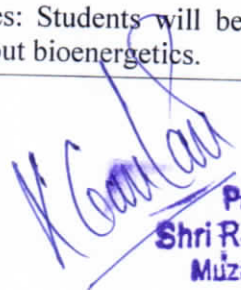
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CO13	Genomics, proteomics and bioinformatics	This paper presents the basics of: mapping, Genome sequencing, Genome sequence assembly: Base calling and assembly programs, Genome annotation: Gene ontology, Automated genome annotation, Annotation of hypothetical proteins and Genome economy. Comparative genomics: Whole genome alignment, Finding a

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Principal
Shri Ram College
Muzaffarnagar

		minimal genome, Lateral gene transfer, Within-genome approach and Gene order and Gene.
CO14	Enzyme and Enzyme engineering	Students will be able to extend their study in enzymology with respect to identification and purification of enzyme. Goals: They will be able to describe and generalize the role of co enzyme in enzyme catalysis. Also, they will be able to interrelate between anabolism and catabolism. Objectives: Students will be able to elaborate their study about bioenergetics.


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Principal
 Shri Ram College
 Muzaffarnagar

Methodology to Evaluate Course & Program Outcomes

Direct Assessment (External + Internal)		70%	
Indirect Assessment (AT + Assignment+ TA)		30%	
Direct Assessment Benchmark		40%	
Level 1	60%	60% Students secure more than 40% marks	Points
1			
Level 2	70%	70% Students secure more than 40% marks	Points
2			
Level 3	80%	80% Students secure more than 40% marks	Points
3			
Indirect Assessment Benchmark		40%	
Level 1	60%	60% Students secure more than 40% marks	Points
Level 2	70%	70% Students secure more than 40% marks	Points
2			
Level 3	80%	80% Students secure more than 40% marks	Points
3			

Program Outcomes (POs) [For Traditional Courses]

- PO1.Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- PO2.Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- PO3.Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- PO4.Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- PO5. Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
- PO6. Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
- PO7. Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

CO & PO Mapping

(Three Levels: 3-Strongly Related, 2-Moderately Related, 1-Slightly Related)



Assessing Total Attainment for given Subject:

Direct Assessment (70%)

University Exams & Internal Exams

(70%): 70% of (1 or 2 or 3) eg. 70% of 1 is 0.7

Indirect Assessment (30%)

Attendance + Assignment/Presentation+ TA

(30%): 30% of (1 or 2 or 3) eg. 30% of 3 is 0.9

Therefore Total Attainment for Subject Name (Sub code :) is $(0.7+0.9) = 1.60$

Assessing PO attainment through CO's:

Formula for Computation: $\frac{\text{Total Attainment for Subject} \times \text{AVG of POi}}{3}$

3



eg: $3 \times 1.75 / 3 = 1.75$

Name of Programme : B.SC(MICRO)

Name of Course/ Subject :IMMUNOLOGY

Assessment of Students

S. NO	Roll Number	Student Name	Direct Assessment		Total Direct Assess- ment	70 % of C	Indirect Assessment			Total of Indirect Assessme- nt (E)	30 % of E	Total Assessme- nt (D+F)=G	Percentag- e of Marks out of 85
					(A+B) =C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assignm- ent	Attenda- nce	Behavi- our / Attitud- e		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855131001	AANCHAL CHAUDHARY	20	50	70	49	18	16	7	41	12.3	61.3	72.11765
2	R180855131003	Aastha saini	22	49	71	49.7	16	17	8	41	12.3	62	72.94118
3	R180855131004	AAYRA	17	48	65	45.5	17	16	7	40	12	57.5	67.64706
4	R180855131005	AAYUSHI CHOUDHARY	28	49	77	53.9	18	18	9	45	13.5	67.4	79.29412
5	R180855131006	ADITI SHARMA	36	44	80	56	17	19	8	44	13.2	69.2	81.41176
6	R180855131008	AJAY KUMAR	23	40	63	44.1	17	17	9	43	12.9	57	67.05882
7	R180855131009	Amit kashyap	26	39	65	45.5	16	18	7	41	12.3	57.8	68
8	R180855131011	ANJALI RANI	29	47	76	53.2	16	19	8	43	12.9	66.1	77.76471
9	R180855131013	ANVESH PAL	38	38	76	53.2	19	17	9	45	13.5	66.7	78.47059
10	R180855131014	AVNEESH	41	40	81	56.7	18	19	7	44	13.2	69.9	82.23529
11	R180855131017	DEEPAK KUMAR	35	44	79	55.3	19	18	8	45	13.5	68.8	80.94118
12	R180855131018	FARHANA PRAVEEN	30		70		18	17	9	44	13.2	62.2	73.17647
13	R180855131020	GURUDAS	18		70		17	18	6	41	12.3	53.6	63.05882



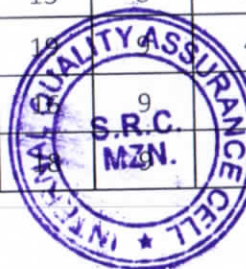
14	R180855131021	JAYA	36	39	75	52.5	18	17	7	42	12.6	65.1	76.58824
15	R180855131022	JUWERIA	28	40	68	47.6	16	19	8	43	12.9	60.5	71.17647
16	R180855131023	KHADEEJA	27	38	65	45.5	16	17	9	42	12.6	58.1	68.35294
17	R180855131016	KM CHEENU	32	37	69	48.3	18	17	7	42	12.6	60.9	71.64706
18	R170855136014	KM CHHAVI	22	39	61	42.7	19	18	8	45	13.5	56.2	66.11765
19	R180855131038	KM PRIYA	29	40	69	48.3	17	18	9	44	13.2	61.5	72.35294
20	R180855131054	KM VAISHALI	22	44	66	46.2	18	19	8	45	13.5	59.7	70.23529
21	R180855131002	KM. AARTI	22	42	64	44.8	18	17	8	43	12.9	57.7	67.88235
22	R180855131024	LUBNA	28	41	69	48.3	19	18	8	45	13.5	61.8	72.70588
23	R180855131025	Mariyam	31	37	68	47.6	18	19	7	44	13.2	60.8	71.52941
24	R180855131026	MAZHAR KHAN	31	33	64	44.8	19	19	8	46	13.8	58.6	68.94118
25	R180855131032	MOHD KASIF	43	37	80	56	17	17	9	43	12.9	68.9	81.05882
26	R180855131031	MOHD SUFIYAN	42	39	81	56.7	18	16	8	42	12.6	69.3	81.52941
27	R180855131053	Ushna parveen	35	36	71	49.7	16	18	8	42	12.6	62.3	73.29412
28	R180855131028	MOHD.RAKIB	26	34	60	42	18	16	9	43	12.9	54.9	64.58824
29	R180855131033	NANDINI SHARMA	19	40	59	41.3	19	18	8	45	13.5	54.8	64.47059
30	R180855131034	Naved akhter	40	39	79	55.3	16	18	7	41	12.3	67.6	79.52941
31	R170855136031	NITIN KUMAR	28	38	66	46.2	18	17	8	43	12.9	59.1	69.52941
32	R180855131037	PRIYA	29	40	69	48.3	18	19	9	46	13.8	62.1	73.05882
33	R170855136033	RAJAT	24	39	63	44.1	18	16	9	43	12.9	57	67.05882
34	R180855131039	RITU TANWAR	23	42	65	45.5	17	17	7	41	12.3	57.8	68
35	R180855131040	Saloni choudhary	44	39	83	58.1	18	16	6	40	12	70.1	82.47059
36	R170855136022	SAPNA	26	40	66	46.2	18	18	8	44	13.2	59.4	69.88235



Thank

Name of Programme : B.SC(MICRO)						Name of Course/ Subject :MEDICAL MICROBIOLOGY							
Assessment of Students													
S. N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessme nt (E)	30 % of E	Total Assessm ent (D+F)= G	Percentag e of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			Externa l Marks (A)	Internal Marks (B)	100	70	Assignm ent	Atten dance	Behavi our / Attitu de		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855131001	AANCHAL CHAUDHARY	18	46	64	44.8	17	18	8	43	12.9	57.7	67.88235
2	R180855131003	Aastha saini	17	44	61	42.7	18	13	5	36	10.8	53.5	62.94118
3	R180855131004	AAYRA	26	39	65	45.5	16	15	7	38	11.4	56.9	66.94118
4	R180855131005	AAYUSHI CHOUDHARY	31	44	75	52.5	17	19	5	41	12.3	64.8	76.23529
5	R180855131006	ADITI SHARMA	32	48	80	56	18	19	8	45	13.5	69.5	81.76471
6	R180855131008	AJAY KUMAR	25	41	66	46.2	19	17	9	45	13.5	59.7	70.23529
7	R180855131009	Amit kashyap	30	39	69	48.3	16	16	7	39	11.7	60	70.58824
8	R180855131011	ANJALI RANI	29	38	67	46.9	18	18	8	44	13.2	60.1	70.70588
9	R180855131013	ANVESH PAL	26	39	65	45.5	16	19	8	43	12.9	58.4	68.70588
10	R180855131014	AVNEESH	33	38	71	49.7	19	16	9	44	13.2	62.9	74
11	R180855131017	DEEPAK KUMAR	24	33	57	39.9	17	19	8	44	13.2	53.1	62.47059

12	R180855131018	FARHANA PRAVEEN	28	45	73	51.1	16	17	9	42	12.6	63.7	74.94118
13	R180855131020	GURUDAS	24	33	57	39.9	15	19	8	42	12.6	52.5	61.76471
14	R180855131021	JAYA	39	40	79	55.3	14	17	7	38	11.4	66.7	78.47059
15	R180855131022	JUWERIA	37	41	78	54.6	17	18	8	43	12.9	67.5	79.41176
16	R180855131023	KHADEEJA	31	39	70	49	18	16	7	41	12.3	61.3	72.11765
17	R180855131016	KM CHEENU	42	38	80	56	15	15	8	38	11.4	67.4	79.29412
18	R170855136014	KM CHHAVI	24	40	64	44.8	18	18	8	44	13.2	58	68.23529
19	R180855131038	KM PRIYA	35	42	77	53.9	18	19	8	45	13.5	67.4	79.29412
20	R180855131054	KM VAISHALI	27	48	75	52.5	19	19	6	44	13.2	65.7	77.29412
21	R180855131002	KM. AARTI	28	43	71	49.7	18	17	8	43	12.9	62.6	73.64706
22	R180855131024	LUBNA	31	39	70	49	19	18	9	46	13.8	62.8	73.88235
23	R180855131025	Mariyam	33	39	72	50.4	18	19	9	46	13.8	64.2	75.52941
24	R180855131026	MAZHAR KHAN	32	43	75	52.5	19	17	8	44	13.2	65.7	77.29412
25	R180855131032	MOHD KASIF	38	44	82	57.4	17	16	8	41	12.3	69.7	82
26	R180855131031	MOHD SUFIYAN	36	46	82	57.4	18	15	9	42	12.6	70	82.35294
27	R180855131053	Ushna parveen	34	48	82	57.4	16	19	7	42	12.6	70	82.35294
28	R180855131028	MOHD.RAKIB	27	45	72	50.4	18	18	9	45	13.5	63.9	75.17647
29	R180855131033	NANDINI SHARMA	30	35	65	45.5	19	18	7	44	13.2	58.7	69.05882
30	R180855131034	Naved akhter	37	37	74	51.8	16	18	8	42	12.6	64.4	75.76471
31	R170855136031	NITIN KUMAR	30	45	75	52.5	18	18	9	45	13.5	66	77.64706
32	R180855131037	PRIYA	32	40	72	50.4	18	18	8	44	13.2	63.6	74.82353
33	R170855136033	RAJAT	25	37	62	43.4	18	15	8	41	12.3	55.7	65.52941
34	R180855131039	RITU TANWAR	23	43	66	46.2	17	18	9	45	13.5	59.7	70.23529
35	R180855131040	Saloni choudhary	37	36	73	51.1	18	18	9	43	12.9	64	75.29412
36	R170855136022	SAPNA	27	41	68	47.6	18	18	9	45	13.5	61.1	71.88235



Signature

Name of Programme : B.SC(MICRO)													
Name of Course/ Subject :FOOD AND DAIRY MICROBIOLOGY													
Assessment of Students													
S.N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessme nt	70 % of C	Indirect Assessment			Total of Indirect Assessme nt (E)	30 % of E	Total Assessme nt (D+F)=G	Percentag e of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assign ment	Attend ance	Behavio ur / Attitude		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855131001	AANCHAL CHAUDHARY	26	40	66	46.2	16	17	7	40	12	58.2	68.47059
2	R180855131003	Aastha saini	24	43	67	46.9	17	18	8	43	12.9	59.8	70.35294
3	R180855131004	AAYRA	30	44	74	51.8	19	16	9	44	13.2	65	76.47059
4	R180855131005	AAYUSHI CHOUDHARY	30	39	69	48.3	18	18	7	43	12.9	61.2	72
5	R180855131006	ADITI SHARMA	35	40	75	52.5	18	19	9	46	13.8	66.3	78
6	R180855131008	AJAY KUMAR	31	39	70	49	18	17	8	43	12.9	61.9	72.82353
7	R180855131009	Amit kashyap	32	44	76	53.2	16	18	7	41	12.3	65.5	77.05882
8	R180855131011	ANJALI RANI	32	43	75	52.5	18	19	9	46	13.8	66.3	78
9	R180855131013	ANVESH PAL	31	46	77	53.9	19	17	8	44	13.2	67.1	78.94118
10	R180855131014	AVNEESH	36	49	85	59.5	17	19	9	45	13.5	73	85.88235
11	R180855131017	DEEPAK KUMAR	32	46	78	54.6	16	16	8	42	11.7	66.3	78
12	R180855131018	FARHANA PRAVEEN	34	38	72	50.4	15	18	9	42	12.6	63	74.11765



13	R180855131020	GURUDAS	27	44	71	49.7	18	18	9	45	13.5	63.2	74.35294
14	R180855131021	JAYA	37	42	79	55.3	19	19	7	45	13.5	68.8	80.94118
15	R180855131022	JUWERIA	32	46	78	54.6	17	18	8	43	12.9	67.5	79.41176
16	R180855131023	KHADEEJA	29	46	75	52.5	18	17	7	42	12.6	65.1	76.58824
17	R180855131016	KM CHEENU	34	50	84	58.8	17	17	8	42	12.6	71.4	84
18	R170855136014	KM CHHAVI	31	39	70	49	16	18	8	42	12.6	61.6	72.47059
19	R180855131038	KM PRIYA	30	43	73	51.1	19	17	8	44	13.2	64.3	75.64706
20	R180855131054	KM VAISHALI	28	33	61	42.7	16	17	6	39	11.7	54.4	64
21	R180855131002	KM. AARTI	28	39	67	46.9	17	18	8	43	12.9	59.8	70.35294
22	R180855131024	LUBNA	34	41	75	52.5	18	19	7	44	13.2	65.7	77.29412
23	R180855131025	Mariyam	36	43	79	55.3	16	17	8	41	12.3	67.6	79.52941
24	R180855131026	MAZHAR KHAN	32	39	71	49.7	17	18	9	44	13.2	62.9	74
25	R180855131032	MOHD KASIF	35	44	79	55.3	19	19	8	46	13.8	69.1	81.29412
26	R180855131031	MOHD SUFIYAN	36	36	72	50.4	15	18	8	41	12.3	62.7	73.76471
27	R180855131053	Ushna parveen	38	42	80	56	18	18	9	45	13.5	69.5	81.76471
28	R180855131028	MOHD.RAKIB	26	47	73	51.1	19	16	8	43	12.9	64	75.29412
29	R180855131033	NANDINI SHARMA	31	48	79	55.3	17	16	8	41	12.3	67.6	79.52941
30	R180855131034	Naved akhter	38	49	87	60.9	18	17	9	44	13.2	74.1	87.17647
31	R170855136031	NITIN KUMAR	28	48	76	53.2	19	18	8	45	13.5	66.7	78.47059
32	R180855131037	PRIYA	28	46	74	51.8	17	17	9	43	12.9	64.7	76.11765
33	R170855136033	RAJAT	24	44	68	47.6	18	15	8	41	12.3	59.9	70.47059
34	R180855131039	RITU TANWAR	28	46	74	51.8	17	16	9	42	12.6	64.4	75.76471
35	R180855131040	Saloni choudhary	30	48	78	54.6	16	18	9	43	12.9	67.5	79.41176
36	R170855136022	SAPNA	30	44	74	51.8	19	19	9	47	14.1	65.9	77.52941



Signature

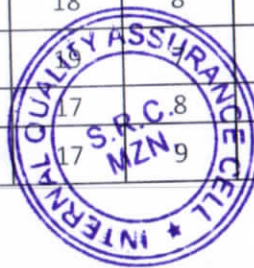
Name of Programme : B.SC(MICRO)													
Name of Course/ Subject : AGRICULTURAL MICROBIOLOGY													
Assessment of Students													
S. NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assignment	Attendance	Behavior / Attitude		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855131001	AANCHAL CHAUDHARY	21	39	60	42	18	18	7	43	12.9	54.9	64.58824
2	R180855131003	Aastha saini	20	40	60	42	16	19	8	43	12.9	54.9	64.58824
3	R180855131004	AAYRA	20	42	62	43.4	18	17	8	43	12.9	56.3	66.23529
4	R180855131005	AAYUSHI CHOUDHARY	29	47	76	53.2	19	16	9	44	13.2	66.4	78.11765
5	R180855131006	ADITI SHARMA	31	49	80	56	17	18	6	41	12.3	68.3	80.35294
6	R180855131008	AJAY KUMAR	29	39	68	47.6	17	19	8	44	13.2	60.8	71.52941
7	R180855131009	Amit kashyap	30	40	70	49	19	17	9	45	13.5	62.5	73.52941
8	R180855131011	ANJALI RANI	29	41	70	49	19	18	8	45	13.5	62.5	73.52941
9	R180855131013	ANVESH PAL	34	40	74	51.8	18	19	7	44	13.2	65	76.47059
10	R180855131014	AVNEESH	34	38	72	50.4	18	17	8	43	12.9	63.3	74.47059
11	R180855131017	DEEPAK KUMAR	27	38	65	45.5	19	17	9	45	13.5	59	69.41176
12	R180855131018	FARHANA PRAVEEN	32	40	72	50.4	16	19	8	43	12.9	63.3	74.47059
13	R180855131020	GURUDAS	19	44	63	44.1	18	18	8 R.C. MZN.	44	13.2	57.3	67.41176

14	R180855131021	JAYA	30	41	71	49.7	18	17	9	44	13.2	62.9	74
15	R180855131022	JUWERIA	31	46	77	53.9	19	19	7	45	13.5	67.4	79.29412
16	R180855131023	KHADEEJA	25	49	74	51.8	16	16	9	41	12.3	64.1	75.41176
17	R180855131016	KM CHEENU	32	38	70	49	18	19	7	44	13.2	62.2	73.17647
18	R170855136014	KM CHHAVI	29	33	62	43.4	19	18	7	44	13.2	56.6	66.58824
19	R180855131038	KM PRIYA	27	44	71	49.7	16	16	9	41	12.3	62	72.94118
20	R180855131054	KM VAISHALI	23	45	68	47.6	18	19	7	44	13.2	60.8	71.52941
21	R180855131002	KM. AARTI	28	50	78	54.6	15	16	9	40	12	66.6	78.35294
22	R180855131024	LUBNA	33	44	77	53.9	16	19	7	42	12.6	66.5	78.23529
23	R180855131025	Mariyam	36	41	77	53.9	17	16	9	42	12.6	66.5	78.23529
24	R180855131026	MAZHAR KHAN	29	39	68	47.6	18	17	7	42	12.6	60.2	70.82353
25	R180855131032	MOHD KASIF	39	40	79	55.3	18	17	9	44	13.2	68.5	80.58824
26	R180855131031	MOHD SUFIYAN	33	41	74	51.8	17	19	8	44	13.2	65	76.47059
27	R180855131053	Ushna parveen	40	39	79	55.3	19	17	7	43	12.9	68.2	80.23529
28	R180855131028	MOHD.RAKIB	26	49	75	52.5	16	18	9	43	12.9	65.4	76.94118
29	R180855131033	NANDINI SHARMA	30	44	74	51.8	18	19	8	45	13.5	65.3	76.82353
30	R180855131034	Naved akhter	34	47	81	56.7	19	19	8	46	13.8	70.5	82.94118
31	R170855136031	NITIN KUMAR	34	38	72	50.4	16	18	9	43	12.9	63.3	74.47059
32	R180855131037	PRIYA	33	46	79	55.3	18	18	8	44	13.2	68.5	80.58824
33	R170855136033	RAJAT	23	42	65	45.5	19	18	9	46	13.8	59.3	69.76471
34	R180855131039	RITU TANWAR	26	44	70	49	18	18	9	45	13.5	62.5	73.52941
35	R180855131040	Saloni choudhary	36	49	85	59.5	19	18	8	45	13.5	73	85.88235
36	R170855136022	SAPNA	33	46	79	55.3	17	19	9	45	13.5	68.8	80.94118



Signature

Name of Programme : B.SC(MICRO)													
Name of Course/ Subject:RECOMBINANT DNA TECHNOLOGY													
Assessment of Students													
S. N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assignment	Attendance	Behavior / Attitude		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855131001	AANCHAL CHAUDHARY	30	37	67	46.9	18	18	7	43	12.9	59.8	70.35294
2	R180855131003	Aastha saini	21	40	61	42.7	17	19	8	44	13.2	55.9	65.76471
3	R180855131004	AAYRA	20	38	58	40.6	16	17	8	41	12.3	52.9	62.23529
4	R180855131005	AAYUSHI CHOUDHARY	25	40	65	45.5	18	16	9	43	12.9	58.4	68.70588
5	R180855131006	ADITI SHARMA	34	41	75	52.5	19	18	6	43	12.9	65.4	76.94118
6	R180855131008	AJAY KUMAR	30	44	74	51.8	18	19	8	45	13.5	65.3	76.82353
7	R180855131009	Amit kashyap	18	41	59	41.3	19	17	9	45	13.5	54.8	64.47059
8	R180855131011	ANJALI RANI	38	45	83	58.1	17	18	8	43	12.9	71	83.52941
9	R180855131013	ANVESH PAL	45	41	86	60.2	18			44	13.2	73.4	86.35294
10	R180855131014	AVNEESH	45	39	84	58.8	19			44	13.2	72	84.70588
11	R180855131017	DEEPAK KUMAR	19	40	59	41.3	17			43	12.9	54.2	63.76471



12	R180855131018	FARHANA PRAVEEN	17	38	55	38.5	17	19	8	44	13.2	51.7	60.82353
13	R180855131020	GURUDAS	8	48	56	39.2	19	18	8	45	13.5	52.7	62
14	R180855131021	JAYA	42	50	92	64.4	19	17	9	45	13.5	77.9	91.64706
15	R180855131022	JUWERIA	42	44	86	60.2	17	19	7	43	12.9	73.1	86
16	R180855131023	KHADEEJA	22	49	71	49.7	19	16	9	44	13.2	62.9	74
17	R180855131016	KM CHEENU	43	48	91	63.7	17	19	7	43	12.9	76.6	90.11765
18	R170855136014	KM CHHAVI	23	44	67	46.9	18	18	7	43	12.9	59.8	70.35294
19	R180855131038	KM PRIYA	30	40	70	49	18	16	9	43	12.9	61.9	72.82353
20	R180855131054	KM VAISHALI	32	41	73	51.1	19	19	7	45	13.5	64.6	76
21	R180855131002	KM. AARTI	29	49	78	54.6	17	16	9	42	12.6	67.2	79.05882
22	R180855131024	LUBNA	39	42	81	56.7	17	19	7	43	12.9	69.6	81.88235
23	R180855131025	Mariyam	26	45	71	49.7	18	16	9	43	12.9	62.6	73.64706
24	R180855131026	MAZHAR KHAN	31	48	79	55.3	19	17	7	43	12.9	68.2	80.23529
25	R180855131032	MOHD KASIF	34	41	75	52.5	19	17	9	45	13.5	66	77.64706
26	R180855131031	MOHD SUFIYAN	44	48	92	64.4	18	19	8	45	13.5	77.9	91.64706
27	R180855131053	Ushna parveen	44	40	84	58.8	19	17	7	43	12.9	71.7	84.35294
28	R180855131028	MOHD.RAKIB	19	41	60	42	18	18	9	45	13.5	55.5	65.29412
29	R180855131033	NANDINI SHARMA	35	40	75	52.5	17	19	8	44	13.2	65.7	77.29412
30	R180855131034	Naved akhter	36	44	80	56	18	19	8	45	13.5	69.5	81.76471
31	R170855136031	NITIN KUMAR	30	40	70	49	19	18	9	46	13.8	62.8	73.88235
32	R180855131037	PRIYA	27	41	68	47.6	18	18	8	44	13.2	60.8	71.52941
33	R170855136033	RAJAT	19	43	62	43.4	18	18	9	45	13.5	56.9	66.94118
34	R180855131039	RITU TANWAR	21	48	69	48.3	19	18	9	46	13.8	62.1	73.05882
35	R180855131040	Saloni choudhary	43	41	84	58.8	17	18	8	43	12.9	71.7	84.35294
36	R170855136022	SAPNA	29	40	69	48.3	19	19	8	47	14.1	62.4	73.41176



Tajam K.

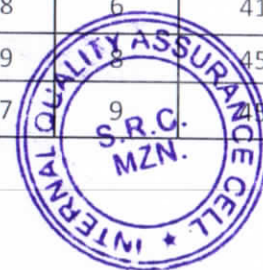
Name of Programme : B.SC(MICRO)					Name of Course/ Subject :INDUSTRIAL MICROBIOLOGY								
Assessment of Students													
S. N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessme nt	70 % of C	Indirect Assessment			Total of Indirect Assessme nt (E)	30 % of E	Total Assessme nt (D+F)=G	Percentag e of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assignm ent	Attenda nce	Behavi our / Attitud e		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855131001	AANCHAL CHAUDHARY	23	44	67	46.9	17	17	8	42	12.6	59.5	70
2	R180855131003	Aastha saini	18	43	61	42.7	19	18	9	46	13.8	56.5	66.47059
3	R180855131004	AAYRA	21	39	60	42	18	19	7	44	13.2	55.2	64.94118
4	R180855131005	AAYUSHI CHOUDHARY	24	39	63	44.1	19	19	8	46	13.8	57.9	68.11765
5	R180855131006	ADITI SHARMA	21	44	65	45.5	18	18	6	42	12.6	58.1	68.35294
6	R180855131008	AJAY KUMAR	30	42	72	50.4	18	18	8	44	13.2	63.6	74.82353
7	R180855131009	Amit kashyap	23	38	61	42.7	19	19	8	46	13.8	56.5	66.47059
8	R180855131011	ANJALI RANI	25	49	74	51.8	16	19	8	43	12.9	64.7	76.11765
9	R180855131013	ANVESH PAL	32	41	73	51.1	18	16	7	41	12.3	63.4	74.58824
10	R180855131014	AVNEESH	30	44	74	51.8	18	18	8	44	13.2	65	76.47059
11	R180855131017	DEEPAK KUMAR	30	47	77	53.9	19	19	7	45	13.5	67.4	79.29412

12	R180855131018	FARHANA PRAVEEN	26	39	65	45.5	19	17	8	44	13.2	58.7	69.05882
13	R180855131020	GURUDAS	26	43	69	48.3	18	19	8	45	13.5	61.8	72.70588
14	R180855131021	JAYA	26	48	74	51.8	19	18	9	46	13.8	65.6	77.17647
15	R180855131022	JUWERIA	23	44	67	46.9	18	18	7	43	12.9	59.8	70.35294
16	R180855131023	KHADEEJA	23	38	61	42.7	18	19	9	46	13.8	56.5	66.47059
17	R180855131016	KM CHEENU	27	50	77	53.9	19	16	7	42	12.6	66.5	78.23529
18	R170855136014	KM CHHAVI	21	43	64	44.8	17	17	7	41	12.3	57.1	67.17647
19	R180855131038	KM PRIYA	28	47	75	52.5	19	18	9	46	13.8	66.3	78
20	R180855131054	KM VAISHALI	24	48	72	50.4	18	19	7	44	13.2	63.6	74.82353
21	R180855131002	KM. AARTI	19	41	60	42	19	16	9	44	13.2	55.2	64.94118
22	R180855131024	LUBNA	22	39	61	42.7	19	19	7	45	13.5	56.2	66.11765
23	R180855131025	Mariyam	27	40	67	46.9	18	16	9	43	12.9	59.8	70.35294
24	R180855131026	MAZHAR KHAN	26	41	67	46.9	19	17	7	43	12.9	59.8	70.35294
25	R180855131032	MOHD KASIF	31	42	73	51.1	18	17	9	44	13.2	64.3	75.64706
26	R180855131031	MOHD SUFYAN	32	39	71	49.7	18	19	8	45	13.5	63.2	74.35294
27	R180855131053	Ushna parveen	32	42	74	51.8	16	17	7	40	12	63.8	75.05882
28	R180855131028	MOHD.RAKIB	26	44	70	49	18	18	9	45	13.5	62.5	73.52941
29	R180855131033	NANDINI SHARMA	28	42	70	49	19	19	8	46	13.8	62.8	73.88235
30	R180855131034	Naved akhter	26	48	74	51.8	16	19	8	43	12.9	64.7	76.11765
31	R170855136031	NITIN KUMAR	29	41	70	49	16	18	9	43	12.9	61.9	72.82353
32	R180855131037	PRIYA	30	44	74	51.8	18	18	8	44	13.2	65	76.47059
33	R170855136033	RAJAT	30	48	78	54.6	18	18	9	45	13.5	68.1	80.11765
34	R180855131039	RITU TANWAR	29	49	78	54.6	17	18	9	44	13.2	67.8	79.76471
35	R180855131040	Saloni choudhary	35	40	75	52.5	16	18	8	44	12.6	65.1	76.58824
36	R170855136022	SAPNA	27	44	71	49.7	17	19	8	44	13.5	63.2	74.35294



Saloni K. S.

Name of Programme : B.SC(MICRO) Name of Course/ Subject :MICROBIAL ECOLOGY													
Assessment of Students													
S. N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assignment	Attendance	Behavior / Attitude		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855131001	AANCHAL CHAUDHARY	20	39	59	41.3	18	19	9	46	13.8	55.1	64.8235294
2	R180855131003	Aastha saini	19	40	59	41.3	18	17	8	43	12.9	54.2	63.7647059
3	R180855131004	AAYRA	23	44	67	46.9	16	18	9	43	12.9	59.8	70.3529412
4	R180855131005	AAYUSHI CHOUDHARY	32	48	80	56	18	16	9	43	12.9	68.9	81.0588235
5	R180855131006	ADITI SHARMA	42	41	83	58.1	16	18	7	41	12.3	70.4	82.8235294
6	R180855131008	AJAY KUMAR	40	39	79	55.3	17	19	8	44	13.2	68.5	80.5882353
7	R180855131009	Amit kashyap	33	44	77	53.9	18	18	8	44	13.2	67.1	78.9411765
8	R180855131011	ANJALI RANI	33	39	72	50.4	19	16	9	44	13.2	63.6	74.8235294
9	R180855131013	ANVESH PAL	36	43	79	55.3	17	18	6	41	12.3	67.6	79.5294118
10	R180855131014	AVNEESH	46	38	84	58.8	18	19	8	45	13.5	72.3	85.0588235
11	R180855131017	DEEPAK KUMAR	34	33	67	46.9	19	17	9		13.5	60.4	71.0588235



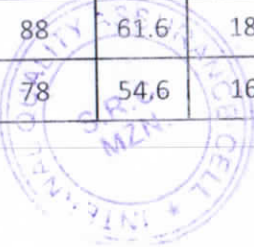
12	R180855131018	FARHANA PRAVEEN	37	31	68	47.6	16	19	9	44	13.2	60.8	71.5294118
13	R180855131020	GURUDAS	30	38	68	47.6	18	17	7	42	12.6	60.2	70.8235294
14	R180855131021	JAYA	40	34	74	51.8	18	16	8	42	12.6	64.4	75.7647059
15	R180855131022	JUWERIA	32	40	72	50.4	16	19	9	44	13.2	63.6	74.8235294
16	R180855131023	KHADEEJA	35	38	73	51.1	18	17	9	44	13.2	64.3	75.6470588
17	R180855131016	KM CHEENU	32	39	71	49.7	18	19	8	45	13.5	63.2	74.3529412
18	R170855136014	KM CHHAVI	26	41	67	46.9	19	19	8	46	13.8	60.7	71.4117647
19	R180855131038	KM PRIYA	29	41	70	49	17	16	8	41	12.3	61.3	72.1176471
20	R180855131054	KM VAISHALI	30	40	70	49	18	18	9	45	13.5	62.5	73.5294118
21	R180855131002	KM. AARTI	25	40	65	45.5	16	19	8	43	12.9	58.4	68.7058824
22	R180855131024	LUBNA	29	41	70	49	18	16	9	43	12.9	61.9	72.8235294
23	R180855131025	Mariyam	26	49	75	52.5	18	18	8	44	13.2	65.7	77.2941176
24	R180855131026	MAZHAR KHAN	29	42	71	49.7	18	19	8	45	13.5	63.2	74.3529412
25	R180855131032	MOHD KASIF	40	48	88	61.6	16	19	7	42	12.6	74.2	87.2941176
26	R180855131031	MOHD SUFIYAN	34	44	78	54.6	18	17	7	42	12.6	67.2	79.0588235
27	R180855131053	Ushna parveen	38	41	79	55.3	17	18	6	41	12.3	67.6	79.5294118
28	R180855131028	MOHD.RAKIB	22	42	64	44.8	19	16	8	43	12.9	57.7	67.8823529
29	R180855131033	NANDINI SHARMA	24	48	72	50.4	17	19	9	45	13.5	63.9	75.1764706
30	R180855131034	Naved akhter	34	41	75	52.5	18	18	9	45	13.5	66	77.6470588
31	R170855136031	NITIN KUMAR	26	39	65	45.5	18	17	8	43	12.9	58.4	68.7058824
32	R180855131037	PRIYA	26	39	65	45.5	17	19	7	43	12.9	58.4	68.7058824
33	R170855136033	RAJAT	28	40	68	47.6	19	18	9	46	13.8	61.4	72.2352941
34	R180855131039	RITU TANWAR	28	41	69	48.3	18	17	8	43	12.9	61.2	72
35	R180855131040	Saloni choudhary	40	42	82	57.4	17	19	9	45	13.5	70.9	83.4117647
36	R170855136022	SAPNA	30	44	51.8	51.8	19	19	8	46	13.8	65.6	77.1764706



Saloni

Name of Programme : B.SC(MICRO)														Name of Course/ Subject :MICROBES IN ENVIRONMENTAL BIOTECHNOLOGY													
Assessment of Students																											
S.N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessm ent	70 % of C	Indirect Assessment			Total of Indirect Assessme nt (E)	30 % of E	Total Assessme nt (D+F)=G	Percentag e of Marks out of 85														
					(A+B)= C	D				50	= (F)	85	G*100/85														
			External Marks (A)	Internal Marks (B)	100	70	Assign ment	Attenda nce	Behaviou r / Attitude		15																
				Class Test/ Unit Test			20	20	10																		
				Sessional Test																							
1	R180855131001	AANCHAL CHAUDHARY	18	40	58	40.6	18	19	9	46	13.8	54.4	64														
2	R180855131003	Aastha saini	28	44	72	50.4	19	17	7	43	12.9	63.3	74.47059														
3	R180855131004	AAYRA	24	45	69	48.3	18	18	8	44	13.2	61.5	72.35294														
4	R180855131005	AAYUSHI CHOUDHARY	26	39	65	45.5	18	19	9	46	13.8	59.3	69.76471														
5	R180855131006	ADITI SHARMA	38	38	76	53.2	19	17	8	44	13.2	66.4	78.11765														
6	R180855131008	AJAY KUMAR	24	41	65	45.5	19	18	7	44	13.2	58.7	69.05882														
7	R180855131009	Amit kashyap	28	40	68	47.6	18	19	7	44	13.2	60.8	71.52941														
8	R180855131011	ANJALI RANI	34	41	75	52.5	17	18	9	44	13.2	65.7	77.29412														
9	R180855131013	ANVESH PAL	38	44	82	57.4	19	19	8	46	13.8	71.2	83.76471														
10	R180855131014	AVNEESH	40	44	84	58.8	18	18	8	44	13.2	72	84.70588														
11	R180855131017	DEEPAK KUMAR	36	49	85	59.5	19	17	9	45	13.5	73	85.88235														

12	R180855131018	FARHANA PRAVEEN	40	47	87	60.9	18	19	9	46	13.8	74.7	87.88235
13	R180855131020	GURUDAS	22	48	70	49	18	19	8	45	13.5	62.5	73.52941
14	R180855131021	JAYA	32	44	76	53.2	17	18	8	43	12.9	66.1	77.76471
15	R180855131022	JUWERIA	32	43	75	52.5	18	17	9	44	13.2	65.7	77.29412
16	R180855131023	KHADEEJA	34	45	79	55.3	19	16	9	44	13.2	68.5	80.58824
17	R180855131016	KM CHEENU	32	47	79	55.3	19	16	8	43	12.9	68.2	80.23529
18	R170855136014	KM CHHAVI	24	46	70	49	16	19	8	43	12.9	61.9	72.82353
19	R180855131038	KM PRIYA	28	46	74	51.8	19	15	7	41	12.3	64.1	75.41176
20	R180855131054	KM VAISHALI	28	49	77	53.9	18	17	9	44	13.2	67.1	78.94118
21	R180855131002	KM. AARTI	24	49	73	51.1	19	15	9	43	12.9	64	75.29412
22	R180855131024	LUBNA	28	41	69	48.3	18	19	8	45	13.5	61.8	72.70588
23	R180855131025	Mariyam	24	48	72	50.4	18	16	6	40	12	62.4	73.41176
24	R180855131026	MAZHAR KHAN	30	43	73	51.1	18	18	9	45	13.5	64.6	76
25	R180855131032	MOHD KASIF	42	44	86	60.2	19	19	8	46	13.8	74	87.05882
26	R180855131031	MOHD SUFIYAN	30	48	78	54.6	19	18	9	46	13.8	68.4	80.47059
27	R180855131053	Ushna parveen	42	41	83	58.1	18	19	8	45	13.5	71.6	84.23529
28	R180855131028	MOHD.RAKIB	26	48	74	51.8	17	18	9	44	13.2	65	76.47059
29	R180855131033	NANDINI SHARMA	29	49	78	54.6	19	17	8	44	13.2	67.8	79.76471
30	R180855131034	Naved akhter	40	39	79	55.3	19	19	8	46	13.8	69.1	81.29412
31	R170855136031	NITIN KUMAR	30	39	69	48.3	18	18	9	45	13.5	61.8	72.70588
32	R180855131037	PRIYA	30	40	70	49	19	18	9	46	13.8	62.8	73.88235
33	R170855136033	RAJAT	30	42	72	50.4	18	17	7	42	12.6	63	74.11765
34	R180855131039	RITU TANWAR	24	44	68	47.6	19	19	8	46	13.8	61.4	72.23529
35	R180855131040	Saloni choudhary	40	48	88	61.6	18	18	9	45	13.5	75.1	88.35294
36	R170855136022	SAPNA	32	46	78	54.6	16	19	7	42	12.6	67.2	79.05882



Saloni R.

Name of Programme : B.SC(MICRO)													
Name of Course/ Subject :FUNDAMENTALS OF INFORMATION TECHNOLOGY													
Assessment of Students													
S.N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessm ent	70 % of C	Indirect Assessment			Total of Indirect Assessme nt (E)	30 % of E	Total Assessme nt (D+F)=G	Percentag e of Marks out of 85
					(A+B)= C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assignm ent	Attend ance	Behaviou r / Attitude		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855131001	AANCHAL CHAUDHARY	12	42	54	37.8	16	19	9	44	13.2	51	60
2	R180855131003	Aastha saini	12	40	52	36.4	19	16	8	43	12.9	49.3	58
3	R180855131004	AAYRA	14	44	58	40.6	18	17	6	41	12.3	52.9	62.23529
4	R180855131005	AAYUSHI CHOUDHARY	14	49	63	44.1	19	15	8	42	12.6	56.7	66.70588
5	R180855131006	ADITI SHARMA	17	44	61	42.7	18	19	6	43	12.9	55.6	65.41176
6	R180855131008	AJAY KUMAR	19	40	59	41.3	18	16	7	41	12.3	53.6	63.05882
7	R180855131009	Amit kashyap	14	49	63	44.1	19	15	7	41	12.3	56.4	66.35294
8	R180855131011	ANJALI RANI	16	44	60	42	17	18	8	43	12.9	54.9	64.58824
9	R180855131013	ANVESH PAL	17	49	66	46.2	18	17	8	44	13.2	59.4	69.88235
10	R180855131014	AVNEESH	20	48	68	47.6	18	17	8	44	13.2	60.8	71.52941
11	R180855131017	DEEPAK KUMAR	18	44	62	43.4	18	17	9	46	13.8	57.2	67.29412

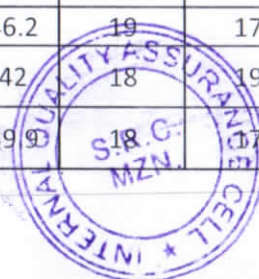


12	R180855131018	FARHANA PRAVEEN	16	49	65	45.5	18	17	9	44	13.2	58.7	69.05882
13	R180855131020	GURUDAS	15	48	63	44.1	19	18	8	45	13.5	57.6	67.76471
14	R180855131021	JAYA	15	49	64	44.8	16	18	7	41	12.3	57.1	67.17647
15	R180855131022	JUWERIA	20	49	69	48.3	19	18	8	45	13.5	61.8	72.70588
16	R180855131023	KHADEEJA	16	49	65	45.5	17	17	9	43	12.9	58.4	68.70588
17	R180855131016	KM CHEENU	18	44	62	43.4	16	18	8	42	12.6	56	65.88235
18	R170855136014	KM CHHAVI	14	49	63	44.1	18	18	9	45	13.5	57.6	67.76471
19	R180855131038	KM PRIYA	16	48	64	44.8	19	17	9	45	13.5	58.3	68.58824
20	R180855131054	KM VAISHALI	18	44	62	43.4	19	19	7	45	13.5	56.9	66.94118
21	R180855131002	KM. AARTI	16	45	61	42.7	18	17	7	42	12.6	55.3	65.05882
22	R180855131024	LUBNA	18	41	59	41.3	19	19	9	47	14.1	55.4	65.17647
23	R180855131025	Mariyam	12	49	61	42.7	17	16	8	41	12.3	55	64.70588
24	R180855131026	MAZHAR KHAN	15	40	55	38.5	19	18	9	46	13.8	52.3	61.52941
25	R180855131032	MOHD KASIF	18	39	57	39.9	18	19	8	45	13.5	53.4	62.82353
26	R180855131031	MOHD SUFIYAN	17	44	61	42.7	19	18	9	46	13.8	56.5	66.47059
27	R180855131053	Ushna parveen	21	41	62	43.4	18	19	8	45	13.5	56.9	66.94118
28	R180855131028	MOHD.RAKIB	17	38	55	38.5	17	18	9	44	13.2	51.7	60.82353
29	R180855131033	NANDINI SHARMA	19	38	57	39.9	19	17	8	44	13.2	53.1	62.47059
30	R180855131034	Naved akhter	21	33	54	37.8	19	19	8	46	13.8	51.6	60.70588
31	R170855136031	NITIN KUMAR	16	44	60	42	18	18	9	45	13.5	55.5	65.29412
32	R180855131037	PRIYA	16	49	65	45.5	19	18	9	46	13.8	59.3	69.76471
33	R170855136033	RAJAT	13	44	57	39.9	18	17	7	42	12.6	52.5	61.76471
34	R180855131039	RITU TANWAR	13	49	62	43.4	19	19	8	46	13.8	57.2	67.29412
35	R180855131040	Saloni choudhary	18	49	65	46.9	18	18	9	45	13.5	60.4	71.05882
36	R170855136022	SAPNA	18	45	61	46	16	19	7	42	12.6	56.7	66.70588



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	Name of Programme : B.SC(MICRO)				Name of Course/ Subject :GENOMICS, PROTEOMICS AND BIOINFORMATICS								
	Assessment of Students												
S. N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assignment	Attendance	Behavior / Attitude		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855131001	AANCHAL CHAUDHARY	15	44	59	41.3	18	17	7	42	12.6	53.9	63.41176
2	R180855131003	Aastha saini	13	41	54	37.8	16	18	8	42	12.6	50.4	59.29412
3	R180855131004	AAYRA	17	39	56	39.2	18	17	9	44	13.2	52.4	61.64706
4	R180855131005	AAYUSHI CHOUDHARY	16	40	56	39.2	18	19	6	43	12.9	52.1	61.29412
5	R180855131006	ADITI SHARMA	18	41	59	41.3	19	17	8	44	13.2	54.5	64.11765
6	R180855131008	AJAY KUMAR	19	44	63	44.1	19	17	8	44	13.2	57.3	67.41176
7	R180855131009	Amit kashyap	19	46	65	45.5	19	19	6	44	13.2	58.7	69.05882
8	R180855131011	ANJALI RANI	15	43	58	40.6	17	18	8	43	12.9	53.5	62.94118
9	R180855131013	ANVESH PAL	16	44	60	42	17	19	8	44	13.2	55.2	64.94118
10	R180855131014	AVNEESH	20	46	66	46.2	19	17	9	45	13.5	59.7	70.23529
11	R180855131017	DEEPAK KUMAR	16	44	60	42	18	19	7	44	13.2	55.2	64.94118
12	R180855131018	FARHANA PRAVEEN	17	40	57	39.9	18	17	6	41	12.3	52.2	61.41176



13	R180855131020	GURUDAS	14	41	55	38.5	19	18	8	45	13.5	52	61.17647
14	R180855131021	JAYA	18	44	62	43.4	16	18	7	41	12.3	55.7	65.52941
15	R180855131022	JUWERIA	19	44	63	44.1	19	18	8	45	13.5	57.6	67.76471
16	R180855131023	KHADEEJA	16	46	62	43.4	17	17	9	43	12.9	56.3	66.23529
17	R180855131016	KM CHEENU	18	46	64	44.8	16	18	8	42	12.6	57.4	67.52941
18	R170855136014	KM CHHAVI	18	44	62	43.4	18	18	9	45	13.5	56.9	66.94118
19	R180855131038	KM PRIYA	18	44	62	43.4	19	17	9	45	13.5	56.9	66.94118
20	R180855131054	KM VAISHALI	17	48	65	45.5	19	19	7	45	13.5	59	69.41176
21	R180855131002	KM. AARTI	17	41	58	40.6	18	17	7	42	12.6	53.2	62.58824
22	R180855131024	LUBNA	18	46	64	44.8	19	19	9	47	14.1	58.9	69.29412
23	R180855131025	Mariyam	16	46	62	43.4	17	16	8	41	12.3	55.7	65.52941
24	R180855131026	MAZHAR KHAN	18	47	65	45.5	19	18	9	46	13.8	59.3	69.76471
25	R180855131032	MOHD KASIF	17	43	60	42	18	19	8	45	13.5	55.5	65.29412
26	R180855131031	MOHD SUFYAN	20	49	69	48.3	19	18	9	46	13.8	62.1	73.05882
27	R180855131053	Ushna parveen	17	49	66	46.2	18	19	8	45	13.5	59.7	70.23529
28	R180855131028	MOHD.RAKIB	16	47	63	44.1	17	18	9	44	13.2	57.3	67.41176
29	R180855131033	NANDINI SHARMA	18	44	62	43.4	19	17	8	44	13.2	56.6	66.58824
30	R180855131034	Naved akhter	17	44	61	42.7	19	19	8	46	13.8	56.5	66.47059
31	R170855136031	NITIN KUMAR	16	47	63	44.1	18	18	9	45	13.5	57.6	67.76471
32	R180855131037	PRIYA	16	41	57	39.9	19	18	9	46	13.8	53.7	63.17647
33	R170855136033	RAJAT	15	42	57	39.9	18	17	7	42	12.6	52.5	61.76471
34	R180855131039	RITU TANWAR	15	40	55	38.5	19	19	8	46	13.8	52.3	61.52941
35	R180855131040	Saloni choudhary	21	41	62	43.4	18	18	9	45	13.5	56.9	66.94118
36	R170855136022	SAPNA	18	44	62	43.4	16	19	9	42	12.6	56	65.88235



Saloni K.

Course Name	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
IMMUNOLOGY	BSC(MB)301	1.00	1.50	2.50	1.50	1.75	2.00	2.00
MEDICAL MICROBIOLOGY	BSC(MB)302	2	1.75	1	2	0.75	1.5	1.75
FOOD AND DAIRY MICROBIOLOGY	BSC(MB)303	1.8	2.2	1.8	1	2.2	1.8	1.4
AGRICULTURAL MICROBIOLOGY	BSC(MB)304	1.4	1.4	1.8	1.2	0.4	1.6	1.4
RECOMBINANT DNA TECHNOLOGY	BSC(MB)305	1.75	1.5	1.5	0.5	1	2.25	1.75
INDUSTRIAL MICROBIOLOGY	BSC(MB)306	2	2	2	0.75	0.75	1	2.25
MICROBIAL ECOLOGY	BSC(MB)307	1.75	1.75	1.5	1.5	1.75	1.25	2
MICROBES IN ENVIRONMENTAL BIOTECHNOLOGY	BSC(MB)308	2	2.25	2	2.5	1.25	1.75	1.75
FUNDAMENTALS OF INFORMATION TECHNOLOGY	BSC(MB)309	1.25	1.75	1.75	1.75	1.75	1.25	1.5
GENOMICS, PROTEOMICS AND BIOINFORMATICS	BSC(MB)310	1.25	1.75	1.75	1.75	1.75	1.25	1.5
AVERAGE TARGET VALUE		1.62	1.79	1.76	1.45	1.34	1.57	1.73



ASSESSMENT OF ATTAINMENT FOR PROGRAMME OUTCOME

Course Name	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
IMMUNOLOGY	BSC(MB)301	1.00	1.50	2.50	1.50	1.75	2.00	2.00
MEDICAL MICROBIOLOGY	BSC(MB)302	2	1.75	1	2	0.75	1.5	1.75
FOOD AND DAIRY MICROBIOLOGY	BSC(MB)303	1.8	2.2	1.8	1	2.2	1.8	1.4
AGRICULTURAL MICROBIOLOGY	BSC(MB)304	1.4	1.4	1.8	1.2	0.4	1.6	1.4
RECOMBINANT DNA TECHNOLOGY	BSC(MB)305	1.75	1.5	1.5	0.5	1	2.25	1.75
INDUSTRIAL MICROBIOLOGY	BSC(MB)306	2	2	2	0.75	0.75	1	2.25
MICROBIAL ECOLOGY	BSC(MB)307	1.75	1.75	1.5	1.5	1.75	1.25	2
MICROBES IN ENVIRONMENTAL BIOTECHNOLOGY	BSC(MB)308	2	2.25	2	2.5	1.25	1.75	1.75
FUNDAMENTALS OF INFORMATION TECHNOLOGY	BSC(MB)309	1.25	1.75	1.75	1.75	1.75	1.25	1.5
GENOMICS, PROTEOMICS AND BIOINFORMATICS	BSC(MB)310	1.25	1.75	1.75	1.75	1.75	1.25	1.5
PO Attainment through Results		1.62	1.79	1.76	1.45	1.34	1.57	1.73

80 % of PO Attainment through results (A)	1.29	1.43	1.4	1.16	1.07	1.25	1.38
Alumni Survey	2	2	3	2	3	2	2
10 % of Alumni Survey (B)	0.2	0.2	0.3	0.2	0.3	0.2	0.2
Employer/ Professional Survey	2	2	3	3	3	2	3
10 % of Employer Survey (C)	0.2	0.2	0.3	0.3	0.3	0.2	0.3
PO Attainment Value A+B+C	1.69	1.83	2	1.66	1.67	1.65	1.88
Target Value	1.62	1.84	1.76	1.45	1.34	1.57	1.73
Gap Value	0.07	0.01	0.24	0.21	0.33	0.02	0.15
Programme Attainment Status	yes	yes	yes	yes	yes	yes	yes

GAP MANAGEMENT

	PO	GAP VALUE	RATEGY
PO2	0.01	WE WILL WORK ENHANCE OUR ENGLISH LANGUAGE SKILL	

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Subject Name: IMMUNOLOGY

Code: BSC- 301

Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	1	2	2	2	1	1	2
COs - 2	2	1	3	1	2	2	2
COs - 3	1	1	2	2	2	2	2
COs - 4	0	2	3	1	2	3	2
Average	1.00	1.50	2.50	1.50	1.75	2.00	2.00
Age Attainment	1.00	1.50	2.50	1.50	1.75	2.00	2.00

Subject Name: MEDICAL MICROBIOLOGY

Code: BSC- 302

Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	2	2	2	2	0	1	1
COs - 2	3	1	1	3	0	2	2
COs - 3	2	1	3	2	1	2	3
COs - 4	1	3	2	1	2	1	1
Average	2	1.75	1	2	0.75	1.5	1.75
Age Attainment	2	1.75	1	2	0.75	1.5	1.75

Subject Name: FOOD AND DAIRY MICROBIOLOGY

Code: BSC- 303

Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	2	3	2	2	2	1	2
COs - 2	1	2	1	0	3	2	1
COs - 3	3	2	3	2	1	3	2
COs - 4	1	1	2	0	2	2	1
COs - 5	2	3	1	1	3	1	1
Average	1.8	2.2	1.8	1	2.2	1.8	1.4
Age Attainment	1.8	2.2	1.8	1	2.2	1.8	1.4

Subject Name: AGRICULTURAL MICROBIOLOGY

Code: BSC- 304

Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	1	1	1	1	0	2	1
COs - 2	1	2	2	1	1	2	2
COs - 3	2	1	2	2	1	1	1
COs - 4	2	1	2	1	0	2	2
COs - 5	1	2	2	1	0	1	1
Average	1.4	1.4	1.8	1.2	0.4	1.6	1.4
Age Attainment	1.4	1.4	1.8	1.2	0.4	1.6	1.4

Subject Name: RECOMBINANT DNA TECHNOLOGY

Code: BSC- 305

Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	1	1	0	1	2	2
COs - 2	2	1	2	1	2	2	2
COs - 3	1	2	1	1	1	3	2
COs - 4	2	2	2	0	0	2	1
Average	1.75	1.5	1.5	0.5	1	2.25	1.75
Age Attainment	1.75	1.5	1.5	0.5	1	2.25	1.75



Subject Name:INDUSTRIAL MICROBIOLOGY

Code: BSC- 306

Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	2	2	2	1	1	0	2
COs - 2	3	1	1	2	1	1	3
COs - 3	2	3	3	0	1	2	2
COs - 4	1	2	2	0	0	1	2
Average	2	2	2	0.75	0.75	1	2.25
Age Attainment	2	2	2	0.75	0.75	1	2.25

Subject Name: MICROBIAL ECOLOGY

Code: BSC- 307

Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	1	3	1	0	2	3
COs - 2	2	3	2	0	1	1	2
Cos 3	2	2	1	1	0	2	3
Cos-4	3	2	3	2	1	1	2
Average	1.75	1.75	1.5	1.5	1.75	1.25	2
Age Attainment	1.75	1.75	1.5	1.5	1.75	1.25	2.4

Subject Name:MICROBES IN ENVIRONMENTAL BIOTECHNOLOGY

Code: BSC- 308

Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	2	3	2	1	2	2
COs - 2	2	3	2	2	2	1	2
COs - 3	1	2	1	3	0	2	2
COs - 4	2	2	2	3	2	2	1
Average	2	2.25	2	2.5	1.25	1.75	1.75
Age Attainment	2	2.25	2	2.5	1.25	1.75	1.75

Subject Name:FUNDAMENTALS OF INFORMATION TECH

Code: BSC- 309

Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	2	2	3	2	2	1	2
COs - 2	1	1	1	2	1	2	1
COs - 3	0	2	2	1	2	2	1
COs - 4	2	2	1	2	2	0	2
Average	1.25	1.75	1.75	1.75	1.75	1.25	1.5
Age Attainment	1.25	1.75	1.75	1.75	1.75	1.25	1.5

Subject Name: GENOMICS, PROTEOMICS AND BIOINFOR

Code: BSC- 310

Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	2	2	3	2	2	1	2
COs - 2	1	1	1	2	1	2	1
COs - 3	0	2	2	1	2	2	1
COs - 4	2	2	1	2	2	0	2
Average	1.25	1.75	1.75	1.75	1.75	1.25	1.5
Age Attainment	1.25	1.75	1.75	1.75	1.75	1.25	1.5



Signature

Methodology to Evaluate Course & Program Outcomes

Direct Assessment (External + Internal)	70%
Indirect Assessment (AT + Assignment+ TA)	30%

Direct Assessment Benchmark		40%		
	Level 1	60%	60% Students secure more than 40% marks	Points
1				
	Level 2	70%	70% Students secure more than 40% marks	Points
2				
	Level 3	80%	80% Students secure more than 40% marks	Points
3				

Indirect Assessment Benchmark		40%		
	Level 1	60%	60% Students secure more than 40% marks	Points 1
	Level 2	70%	70% Students secure more than 40% marks	Points 2
	Level 3	80%	80% Students secure more than 40% marks	Points 3

Program Outcomes (POs) [For Traditional Courses]

PO1.Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

PO2.Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

PO3.Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.

PO4.Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

PO5. Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

PO6. Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

PO7. Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

CO & PO Mapping

(Three Levels: 3-Strongly Related, 2-Moderately Related, 1-Slightly Related)



Name of Programme : B.SC (BIOTECH)

Name of Course/ Subject :PLANT BIOTECHNOLOGY

Assessment of Students (2021-2022)

S.N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessment (A+B)=C	70 % of C D	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E = (F)	Total Assessment (D+F)= G 85	Percentage of Marks out of 85 G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100		Assignme nt 20	Attendan ce 20	Behaviou r / Attitude 10	50			
1	R180855128001	Aakash nadiya	35	40	75	52.5	15	18	6	39	11.7	64.2	75.52941
2	R180855128002	AAS MOHD	36	35	71	49.7	14	17	7	38	11.4	61.1	71.88235
3	R180855128003	ABHISHEK RANA	36	40	76	53.2	17	17	8	42	12.6	65.8	77.41176
4	R180855128004	ADITYA KUMAR	28	42	70	49	18	19	9	46	13.8	62.8	73.88235
5	R180855128005	AJAY PAL	31	39	70	49	17	18	6	41	12.3	61.3	72.11765
6	R180855128006	AKSHAY KUMAR	28	38	66	46.2	18	18	8	44	13.2	59.4	69.88235
7	R180855128007	AMIT KUMAR	48	48	96	67.2	17	17	8	42	12.6	79.8	93.88235
8	R170855133004	ANJU	40	50	90	63	16	18	7	41	12.3	75.3	88.58824
9	R170855133006	ANKIT KUMAR	44	45	89	62.3	18	16	9	43	12.9	75.2	88.47059
10	R180855128009	ANUKUL TYAGI	38	52	90	63	19	18	9	46	13.8	76.8	90.35294
11	R180855128010	ANURADHA PAL	36	39	75	52.5	18	16	8	42	12.6	65.1	76.58824



12	R170855133008	ANUSHKA	32	48	80	56	17	18	9	44	13.2	69.2	81.41176
13	R180855128011	ARVIND KUMAR	34	45	79	55.3	16	18	8	42	12.6	67.9	79.88235
14	R180855128012	BUNTY KUMAR	44	39	83	58.1	17	18	9	44	13.2	71.3	83.88235
15	R180855128013	CHANDRA PRAKASH	36	38	74	51.8	15	17	7	39	11.7	63.5	74.70588
16	R180855128015	Hardeep singh	42	40	82	57.4	18	19	7	44	13.2	70.6	83.05882
17	R180855128016	JUVAIR	52	30	82	57.4	17	18	8	43	12.9	70.3	82.70588
18	R180855128029	KM PRACHI	40	30	70	49	17	17	9	43	12.9	61.9	72.82353
19	R180855128043	KM. SONIYA CHAUDHARY	52	29	81	56.7	15	19	8	42	12.6	69.3	81.52941
20	R180855128018	MOHD MUSTAFA	44	23	67	46.9	16	18	9	43	12.9	59.8	70.35294
21	R180855128019	MOHD SARHAN	44	29	73	51.1	17	17	8	42	12.6	63.7	74.94118
22	R180855128020	MOHIT RANA	31	34	65	45.5	18	19	8	45	13.5	59	69.41176
23	R180855128021	MUKUL KUMAR	50	30	80	56	17	18	9	44	13.2	69.2	81.41176
24	R170855133027	MUKUL KUMAR	38	29	67	46.9	16	18	7	41	12.3	59.2	69.64706
25	R180855128022	MUSKAN VASHISHTH A	47	20	67	46.9	17	17	8	42	12.6	59.5	70
26	R180855128023	NADEEM AHMAD	33	30	63	44.1	17	19	7	43	12.9	57	67.05882
27	R180855128024	NADIR ALI	34	40	74	51.8	15	19	7	41	12.3	64.1	75.41176
28	R180855128025	NAMAN SHARMA	42	30	72	50.4	19	19	7	45	13.5	63.9	75.17647
29	R180855128026	NEHA	53	28	81	56.7	18	17	9	44	13.2	69.9	82.23529
30	R180855128027	NITESH KATARIYA	45	38	83	58.1	18	16	6	40	12	70.1	82.47059
31	R180855128028	PARASHANT KUMAR	56	30	86	60.2	17	18	8	43	12.9	73.1	86
32	R180855128031	RITIKA PAL	42	27	69	48.3	16	18	7	41	12.3	60.6	71.29412
33	R180855128032	ROBIN SINGH	56	28	84	58.8	16	15	8	39	11.7	70.5	82.94118



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Name of Programme : B.SC(BIOTECH)

Name of Course/ Subject :ANIMAL BIOTECHNOLOGY

Assessment of Students(2021-2022)

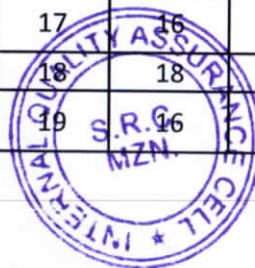
S.N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assignment	Attendance	Behavior / Attitude		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855128001	Aakash nadiya	44	30	74	51.8	16	17	6	39	11.7	63.5	74.70588
2	R180855128002	AAS MOHD	43	36	79	55.3	15	18	6	39	11.7	67	78.82353
3	R180855128003	ABHISHEK RANA	34	38	72	50.4	17	16	7	40	12	62.4	73.41176
4	R180855128004	ADITYA KUMAR	26	40	66	46.2	18	18	8	44	13.2	59.4	69.88235
5	R180855128005	AJAY PAL	22	45	67	46.9	17	17	7	41	12.3	59.2	69.64706
6	R180855128006	AKSHAY KUMAR	27	42	69	48.3	19	17	6	42	12.6	60.9	71.64706
7	R180855128007	AMIT KUMAR	36	43	79	55.3	18	19	8	45	13.5	68.8	80.94118
8	R170855133004	ANJU	6	44	50	35	17	17	6	40	12	47	55.29412
9	R170855133006	ANKIT KUMAR	19	40	59	41.3	18	16	8	42	12.6	53.9	63.41176
10	R180855128009	ANUKUL TYAGI	2	44	46	32.2	18	18	9	45		z	#VALUE!
11	R180855128010	ANURADHA PAL	27	40	67	46.9	19	17	7	43	12.9	53.9	63.41176
12	R170855133008	ANUSHKA	20	49	69	48.3	18	19	8	45	13.5	32.2	37.88235
13	R180855128011	ARVIND KUMAR	38	44	82	57.4	17	16	7	40	12	59.8	70.35294

14	R180855128012	BUNTY KUMAR	37	40	77	53.9	18	18	8	44	13.2	61.8	72.70588
15	R180855128013	CHANDRA PRAKASH	5	45	50	35	17	18	6	41	12.3	69.4	81.64706
16	R180855128015	Hardeep singh	38	39	77	53.9	19	19	8	46	13.8	67.1	78.94118
17	R180855128016	JUVAIR	17	48	65	45.5	18	18	8	44	13.2	47.3	55.64706
18	R180855128029	KM PRACHI	27	49	76	53.2	18	18	7	43	12.9	67.7	79.64706
19	R180855128043	KM. SONIYA CHAUDHARY	48	48	96	67.2	17	19	7	43	12.9	58.7	69.05882
20	R180855128018	MOHD MUSTAFA	40	30	70	49	18	17	9	44	13.2	66.1	77.76471
21	R180855128019	MOHD SARHAN	34	40	74	51.8	19	18	8	45	13.5	80.1	94.23529
22	R180855128020	MOHIT RANA	27	39	66	46.2	18	17	7	42	12.6	62.2	73.17647
23	R180855128021	MUKUL KUMAR	58	29	87	60.9	17	18	8	43	12.9	65.3	76.82353
24	R170855133027	MUKUL KUMAR	55	30	85	59.5	18	17	8	43	12.9	58.8	69.17647
25	R180855128022	MUSKAN VASHISHTHA	50	32	82	57.4	18	17	8	43	12.9	73.8	86.82353
26	R180855128023	NADEEM AHMAD	54	29	83	58.1	19	16	8	43	12.9	72.4	85.17647
27	R180855128024	NADIR ALI	42	30	72	50.4	15	18	9	42	12.6	70.3	82.70588
28	R180855128025	NAMAN SHARMA	41	35	76	53.2	18	17	8	43	12.9	71	83.52941
29	R180855128026	NEHA	54	38	92	64.4	19	16	7	42	12.6	63	74.11765
30	R180855128027	NITESH KATARIYA	25	40	65	45.5	18	17	9	44	13.2	66.1	77.76471
31	R180855128028	PARASHANT KUMAR	38	39	77	53.9	18	17	8	43	12.9	77	90.58824
32	R180855128031	RITIKA PAL	16	45	61	42.7	17	19	8	44	13.2	58.7	69.05882
33	R180855128032	ROBIN SINGH	26	39	65	45.5	18	17	7	42	12.6	66.8	78.58824



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Name of Programme : B.SC(BIOTECH) Name of Course/ Subject :MOLECULAR VIROLOGY													
Assessment of Students(2021-2022)													
S. N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assignment	Attendance	Behaviour / Attitude		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855128001	Aakash nadiya	28	38	66	46.2	17	16	7	40	12	58.2	68.47059
2	R180855128002	AAS MOHD	41	37	78	54.6	16	17	6	39	11.7	66.3	78
3	R180855128003	ABHISHEK RANA	40	35	75	52.5	17	18	8	43	12.9	65.4	76.94118
4	R180855128004	ADITYA KUMAR	26	39	65	45.5	17	19	7	43	12.9	58.4	68.70588
5	R180855128005	AJAY PAL	28	40	68	47.6	18	18	8	44	13.2	60.8	71.52941
6	R180855128006	AKSHAY KUMAR	34	40	74	51.8	18	17	6	41	12.3	64.1	75.41176
7	R180855128007	AMIT KUMAR	40	39	79	55.3	16	18	7	41	12.3	67.6	79.52941
8	R170855133004	ANJU	40	38	78	54.6	17	16	7	40	12	66.6	78.35294
9	R170855133006	ANKIT KUMAR	44	35	79	55.3	18	18	8	44	13.2	68.5	80.58824
10	R180855128009	ANUKUL TYAGI	30	44	74	51.8	19	19	9	47	14.1	65.9	77.52941
11	R180855128010	ANURADHA PAL	27	40	67	46.9	17	16	7	40	12	58.9	69.29412
12	R170855133008	ANUSHKA	25	44	69	48.3	18	18	6	42	12.6	60.9	71.64706
13	R180855128011	ARVIND KUMAR	34	39	73	51.1	19	16	8	43	12.9	64	75.29412



14	R180855128012	BUNTY KUMAR	35	37	72	50.4	16	18	7	41	12.3	62.7	73.76471
15	R180855128013	CHANDRA PRAKASH	37	36	73	51.1	18	18	8	44	13.2	64.3	75.64706
16	R180855128015	Hardeep singh	34	38	72	50.4	16	17	9	42	12.6	63	74.11765
17	R180855128016	JUVAIR	41	29	70	49	17	18	9	44	13.2	62.2	73.17647
18	R180855128029	KM PRACHI	38	33	71	49.7	18	16	7	41	12.3	62	72.94118
19	R180855128043	KM. SONIYA CHAUDHARY	48	38	86	60.2	19	18	8	45	13.5	73.7	86.70588
20	R180855128018	MOHD MUSTAFA	32	38	70	49	18	19	8	45	13.5	62.5	73.52941
21	R180855128019	MOHD SARHAN	36	30	66	46.2	18	16	7	41	12.3	58.5	68.82353
22	R180855128020	MOHIT RANA	30	40	70	49	17	18	8	43	12.9	61.9	72.82353
23	R180855128021	MUKUL KUMAR	44	30	74	51.8	19	16	9	44	13.2	65	76.47059
24	R170855133027	MUKUL KUMAR	35	36	71	49.7	17	18	8	43	12.9	62.6	73.64706
25	R180855128022	MUSKAN VASHISHTHA	31	35	66	46.2	16	19	7	42	12.6	58.8	69.17647
26	R180855128023	NADEEM AHMAD	37	36	73	51.1	18	19	8	45	13.5	64.6	76
27	R180855128024	NADIR ALI	35	39	74	51.8	16	17	9	42	12.6	64.4	75.76471
28	R180855128025	NAMAN SHARMA	32	37	69	48.3	17	18	8	43	12.9	61.2	72
29	R180855128026	NEHA	47	30	77	53.9	18	16	7	41	12.3	66.2	77.88235
30	R180855128027	NITESH KATARIYA	32	30	62	43.4	19	16	8	43	12.9	56.3	66.23529
31	R180855128028	PARASHANT KUMAR	40	29	69	48.3	19	16	9	44	13.2	61.5	72.35294
32	R180855128031	RITIKA PAL	46	38	84	58.8	18	18	8	44	13.2	72	84.70588
33	R180855128032	ROBIN SINGH	47	38	85	59.5	18	16	9	43	12.9	72.4	85.17647



निष्कर्ष

Name of Programme : B.SC(BIOTECH)

Name of Course/ Subject :NANOBIOTECHNOLOGY

Assessment of Students(2021-2022)

S.N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessm ent	70 % of C	Indirect Assessment			Total of Indirect Assessme nt (E)	30 % of E	Total Assessm ent (D+F)= G	Percenta ge of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assignm ent	Attenda nce	Behavio ur / Attitud e		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855128001	Aakash nadiya	40	29	69	48.3	18	17	8	43	12.9	61.2	72
2	R180855128002	AAS MOHD	40	36	76	53.2	16	17	7	40	12	65.2	76.70588
3	R180855128003	ABHISHEK RANA	37	38	75	52.5	18	16	8	42	12.6	65.1	76.58824
4	R180855128004	ADITYA KUMAR	29	39	68	47.6	19	19	9	47	14.1	61.7	72.58824
5	R180855128005	AJAY PAL	36	40	76	53.2	17	18	7	42	12.6	65.8	77.41176
6	R180855128006	AKSHAY KUMAR	33	39	72	50.4	18	17	8	43	12.9	63.3	74.47059
7	R180855128007	AMIT KUMAR	40	37	77	53.9	17	19	8	44	13.2	67.1	78.94118
8	R170855133004	ANJU	40	37	77	53.9	19	18	6	43	12.9	66.8	78.58824
9	R170855133006	ANKIT KUMAR	40	39	79	55.3	18	17	7	42	12.6	67.9	79.88235
10	R180855128009	ANUKUL TYAGI	40	33	73	51.1	19	17	8	44	13.2	64.3	75.64706
11	R180855128010	ANURADHA PAL	40	36	76	53.2	16	19	9	44	13.2	66.4	78.11765
12	R170855133008	ANUSHKA	37	40	77	53.9	19	18	8	45	13.5	67.4	79.29412

13	R180855128011	ARVIND KUMAR	52	38	90	63	18	17	9	44	13.2	76.2	89.64706
14	R180855128012	BUNTY KUMAR	50	38	88	61.6	17	16	8	41	12.3	73.9	86.94118
15	R180855128013	CHANDRA PRAKASH	52	38	90	63	16	18	9	43	12.9	75.9	89.29412
16	R180855128015	Hardeep singh	46	33	79	55.3	15	16	8	39	11.7	67	78.82353
17	R180855128016	JUVAIR	50	38	88	61.6	18	18	9	45	13.5	75.1	88.35294
18	R180855128029	KM PRACHI	46	36	82	57.4	16	17	8	41	12.3	69.7	82
19	R180855128043	KM. SONIYA CHAUDHARY	48	35	83	58.1	19	17	8	44	13.2	71.3	83.88235
20	R180855128018	MOHD MUSTAFA	46	38	84	58.8	18	18	9	45	13.5	72.3	85.05882
21	R180855128019	MOHD SARHAN	40	39	79	55.3	17	19	8	44	13.2	68.5	80.58824
22	R180855128020	MOHIT RANA	37	40	77	53.9	18	18	9	45	13.5	67.4	79.29412
23	R180855128021	MUKUL KUMAR	49	39	88	61.6	19	19	7	45	13.5	75.1	88.35294
24	R170855133027	MUKUL KUMAR	49	39	88	61.6	17	17	8	42	12.6	74.2	87.29412
25	R180855128022	MUSKAN VASHISHTHA	48	33	81	56.7	15	17	9	41	12.3	69	81.17647
26	R180855128023	NADEEM AHMAD	47	37	84	58.8	17	16	7	40	12	70.8	83.29412
27	R180855128024	NADIR ALI	36	49	85	59.5	16	16	8	40	12	71.5	84.11765
28	R180855128025	NAMAN SHARMA	49	40	89	62.3	19	18	9	46	13.8	76.1	89.52941
29	R180855128026	NEHA	53	39	92	64.4	17	19	8	44	13.2	77.6	91.29412
30	R180855128027	NITESH KATARIYA	50	39	89	62.3	19	18	9	46	13.8	76.1	89.52941
31	R180855128028	PARASHANT KUMAR	50	40	90	63	18	17	8	43	12.9	75.9	89.29412
32	R180855128031	RITIKA PAL	55	39	94	65.8	18	18	9	45	13.5	79.3	93.29412
33	R180855128032	ROBIN SINGH	53	37	90	63	17	16	9	42	12.6	75.6	88.94118



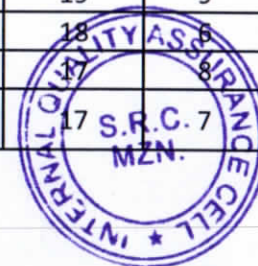
तलक २५

Name of Programme : B.SC(BIOTECH)

Name of Course/ Subject : ENVIRONMENTAL BIOTECHNOLOGY

Assessment of Students(2021-2022)

S.N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assignment	Attendance	Behavior / Attitude		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855128001	Aakash nadiya	38	35	73	51.1	17	17	7	41	12.3	63.4	74.58824
2	R180855128002	AAS MOHD	50	33	83	58.1	16	17	8	41	12.3	70.4	82.82353
3	R180855128003	ABHISHEK RANA	38	39	77	53.9	19	16	9	44	13.2	67.1	78.94118
4	R180855128004	ADITYA KUMAR	36	40	76	53.2	16	19	8	43	12.9	66.1	77.76471
5	R180855128005	AJAY PAL	36	39	75	52.5	18	18	8	44	13.2	65.7	77.29412
6	R180855128006	AKSHAY KUMAR	36	40	76	53.2	17	17	9	43	12.9	66.1	77.76471
7	R180855128007	AMIT KUMAR	50	30	80	56	18	19	9	46	13.8	69.8	82.11765
8	R170855133004	ANJU	38	38	76	53.2	19	18	8	43	12.9	66.1	77.76471
9	R170855133006	ANKIT KUMAR	50	34	84	58.8	18	17	8	43	12.9	71.7	84.35294
10	R180855128009	ANUKUL TYAGI	38	44	82	57.4	19	17	8	43	12.9	70.3	82.70588



11	R180855128010	ANURADHA PAL	48	38	86	60.2	19	19	7	45	13.5	73.7	86.70588
12	R170855133008	ANUSHKA	40	30	70	49	18	18	9	45	13.5	62.5	73.52941
13	R180855128011	ARVIND KUMAR	47	33	80	56	18	17	7	42	12.6	68.6	80.70588
14	R180855128012	BUNTY KUMAR	50	30	80	56	17	16	8	41	12.3	68.3	80.35294
15	R180855128013	CHANDRA PRAKASH	50	29	79	55.3	19	18	7	44	13.2	68.5	80.58824
16	R180855128015	Hardeep singh	42	38	80	56	18	16	8	42	12.6	68.6	80.70588
17	R180855128016	JUVAIR	55	30	85	59.5	17	18	8	43	12.9	72.4	85.17647
18	R180855128029	KM PRACHI	52	33	85	59.5	19	17	9	45	13.5	73	85.88235
19	R180855128043	KM. SONIYA CHAUDHARY	54	32	86	60.2	18	17	9	44	13.2	73.4	86.35294
20	R180855128018	MOHD MUSTAFA	52	29	81	56.7	19	18	7	44	13.2	69.9	82.23529
21	R180855128019	MOHD SARHAN	52	28	80	56	18	19	8	45	13.5	69.5	81.76471
22	R180855128020	MOHIT RANA	39	49	88	61.6	18	18	9	45	13.5	75.1	88.35294
23	R180855128021	MUKUL KUMAR	56	39	95	66.5	19	19	8	46	13.8	80.3	94.47059
24	R170855133027	MUKUL KUMAR	51	39	90	63	17	17	9	43	12.9	75.9	89.29412
25	R180855128022	MUSKAN VASHISHTHA	54	33	87	60.9	18	17	8	43	12.9	73.8	86.82353
26	R180855128023	NADEEM AHMAD	52	36	88	61.6	18	16	8	42	12.6	74.2	87.29412
27	R180855128024	NADIR ALI	49	33	82	57.4	16	16	8	40	12	69.4	81.64706
28	R180855128025	NAMAN SHARMA	52	39	91	63.7	18	18	7	43	12.9	76.6	90.11765
29	R180855128026	NEHA	55	39	94	65.8	18	19	9	46	13.8	79.6	93.64706
30	R180855128027	NITESH KATARIYA	48	44	92	64.4	18	18	7	43	12.9	77.3	90.94118
31	R180855128028	PARASHANT KUMAR	49	39	88	61.6	18	17	9	44	13.2	74.8	88
32	R180855128031	RITIKA PAL	54	40	94	65.8	19	18	8	45	13.5	79.3	93.29412
33	R180855128032	ROBIN SINGH	54	37	91	63.7	19	16	8	43	12.9	76.6	90.11765



Signature

Name of Programme : B.SC(BIOTECH)

Name of Course/ Subject :INDUSTRIAL BIOTECHNOLOGY

Assessment of Students(2021-2022)

S. N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assignment	Attendance	Behaviour / Attitude		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855128001	Aakash nadiya	38	40	78	54.6	18	16	8	42	12.6	67.2	79.05882
2	R180855128002	AAS MOHD	44	39	83	58.1	17	18	9	44	13.2	71.3	83.88235
3	R180855128003	ABHISHEK RANA	38	44	82	57.4	18	18	8	44	13.2	70.6	83.05882
4	R180855128004	ADITYA KUMAR	41	45	86	60.2	19	19	7	45	13.5	73.7	86.70588
5	R180855128005	AJAY PAL	25	40	65	45.5	18	18	6	42	12.6	58.1	68.35294
6	R180855128006	AKSHAY KUMAR	33	39	72	50.4	18	19	8	45	13.5	63.9	75.17647
7	R180855128007	AMIT KUMAR	40	44	84	58.8	19	18	9	46	13.8	72.6	85.41176
8	R170855133004	ANJU	38	49	87	60.9	18	18	8	44	13.2	74.1	87.17647
9	R170855133006	ANKIT KUMAR	48	40	88	61.6	18	17	7	42	12.6	74.2	87.29412
10	R180855128009	ANUKUL TYAGI	32	45	77	53.9	17	18	8	43	12.9	66.8	78.58824
11	R180855128010	ANURADHA PAL	42	39	81	56.7	17	17	8	42	12.6	69.3	81.52941

12	R170855133008	ANUSHKA	29	44	73	51.1	18	19	8	45	13.5	64.6	76
13	R180855128011	ARVIND KUMAR	45	39	84	58.8	19	19	9	47	14.1	72.9	85.76471
14	R180855128012	BUNTY KUMAR	48	36	84	58.8	18	18	9	45	13.5	72.3	85.05882
15	R180855128013	CHANDRA PRAKASH	46	38	84	58.8	18	17	8	43	12.9	71.7	84.35294
16	R180855128015	Hardeep singh	50	39	89	62.3	19	19	9	47	14.1	76.4	89.88235
17	R180855128016	JUVAIR	54	40	94	65.8	18	18	7	43	12.9	78.7	92.58824
18	R180855128029	KM PRACHI	52	39	91	63.7	19	19	8	46	13.8	77.5	91.17647
19	R180855128043	KM. SONIYA CHAUDHARY	52	39	91	63.7	19	18	7	44	13.2	76.9	90.47059
20	R180855128018	MOHD MUSTAFA	49	29	78	54.6	18	19	8	45	13.5	68.1	80.11765
21	R180855128019	MOHD SARHAN	45	33	78	54.6	17	18	9	44	13.2	67.8	79.76471
22	R180855128020	MOHIT RANA	31	40	71	49.7	19	19	8	46	13.8	63.5	74.70588
23	R180855128021	MUKUL KUMAR	51	39	90	63	18	18	7	43	12.9	75.9	89.29412
24	R170855133027	MUKUL KUMAR	52	40	92	64.4	18	18	8	44	13.2	77.6	91.29412
25	R180855128022	MUSKAN VASHISHTHA	45	39	84	58.8	17	19	9	45	13.5	72.3	85.05882
26	R180855128023	NADEEM AHMAD	48	35	83	58.1	17	18	8	43	12.9	71	83.52941
27	R180855128024	NADIR ALI	44	39	83	58.1	18	17	8	43	12.9	71	83.52941
28	R180855128025	NAMAN SHARMA	50	37	87	60.9	19	19	9	47	14.1	75	88.23529
29	R180855128026	NEHA	56	40	96	67.2	18	18	8	44	13.2	80.4	94.58824
30	R180855128027	NITESH KATARIYA	52	39	91	63.7	18	19	9	46	13.8	77.5	91.17647
31	R180855128028	PARASHANT KUMAR	53	33	86	60.2	19	18	8	45	13.5	73.7	86.70588
32	R180855128031	RITIKA PAL	47	39	86	60.2	18	19	9	46	13.8	74	87.05882
33	R180855128032	ROBIN SINGH	52	33	85	59.5	17	19	8	44	13.2	72.7	85.52941



Signature

Name of Programme : B.SC(BIOTECH)

Name of Course/ Subject : GENOMICS AND PROTEOMICS

Assessment of Students(2021-2022)

S.N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assignment	Attendance	Behavior / Attitude		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855128001	Aakash nadiya	40	38	78	54.6	19	16	7	42	12.6	67.2	79.05882
2	R180855128002	AAS MOHD	40	39	79	55.3	18	18	8	44	13.2	68.5	80.58824
3	R180855128003	ABHISHEK RANA	50	40	90	63	17	18	9	44	13.2	76.2	89.64706
4	R180855128004	ADITYA KUMAR	30	46	76	53.2	18	19	7	44	13.2	66.4	78.11765
5	R180855128005	AJAY PAL	29	49	78	54.6	19	18	9	46	13.8	68.4	80.47059
6	R180855128006	AKSHAY KUMAR	40	40	80	56	17	19	8	44	13.2	69.2	81.41176
7	R180855128007	AMIT KUMAR	45	39	84	58.8	18	18	8	44	13.2	72	84.70588
8	R170855133004	ANJU	40	39	79	55.3	17	18	9	44	13.2	68.5	80.58824
9	R170855133006	ANKIT KUMAR	57	39	96	67.2	19	17	8	44	13.2	80.4	94.58824
10	R180855128009	ANUKUL TYAGI	39	44	83	58.1	19	18	9	46	13.8	71.9	84.58824
11	R180855128010	ANURADHA PAL	37	40	77	53.9	18	17	8	43	12.9	66.8	78.58824
12	R170855133008	ANUSHKA	30	49	79	55.3	17	17	7	43	12.9	68.2	80.23529



13	R180855128011	ARVIND KUMAR	55	44	99	69.3	18	19	9	46	13.8	83.1	97.76471
14	R180855128012	BUNTY KUMAR	50	40	90	63	17	18	9	44	13.2	76.2	89.64706
15	R180855128013	CHANDRA PRAKASH	40	39	79	55.3	19	17	8	44	13.2	68.5	80.58824
16	R180855128015	Hardeep singh	40	38	78	54.6	18	19	8	45	13.5	68.1	80.11765
17	R180855128016	JUVAIR	50	39	89	62.3	18	18	8	44	13.2	75.5	88.82353
18	R180855128029	KM PRACHI	45	39	84	58.8	18	19	9	46	13.8	72.6	85.41176
19	R180855128043	KM. SONIYA CHAUDHARY	49	30	79	55.3	17	18	9	44	13.2	68.5	80.58824
20	R180855128018	MOHD MUSTAFA	40	33	73	51.1	19	19	8	46	13.8	64.9	76.35294
21	R180855128019	MOHD SARHAN	40	38	78	54.6	18	18	9	45	13.5	68.1	80.11765
22	R180855128020	MOHIT RANA	25	44	69	48.3	18	19	8	45	13.5	61.8	72.70588
23	R180855128021	MUKUL KUMAR	53	39	92	64.4	19	18	9	46	13.8	78.2	92
24	R170855133027	MUKUL KUMAR	27	48	75	52.5	17	18	8	43	12.9	65.4	76.94118
25	R180855128022	MUSKAN VASHISHTHA	33	40	73	51.1	19	19	9	47	14.1	65.2	76.70588
26	R180855128023	NADEEM AHMAD	31	49	80	56	18	18	8	44	13.2	69.2	81.41176
27	R180855128024	NADIR ALI	29	48	77	53.9	18	17	9	44	13.2	67.1	78.94118
28	R180855128025	NAMAN SHARMA	27	49	76	53.2	17	19	8	44	13.2	66.4	78.11765
29	R180855128026	NEHA	45	40	85	59.5	18	18	9	45	13.5	73	85.88235
30	R180855128027	NITESH KATARIYA	37	44	81	56.7	18	19	8	45	13.5	70.2	82.58824
31	R180855128028	PARASHANT KUMAR	28	49	77	53.9	17	18	9	44	13.2	67.1	78.94118
32	R180855128031	RITIKA PAL	36	40	76	53.2	18	19	9	46	13.8	67	78.82353
33	R180855128032	ROBIN SINGH	44	40	84	58.8	18	19	9	46	13.8	72.6	85.41176

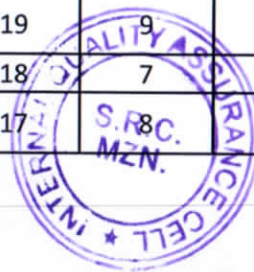


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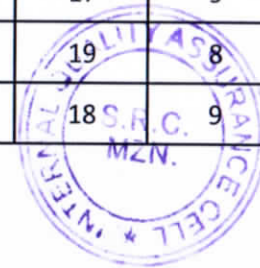
Name of Programme : B.SC(BIOTECH) Name of Course/ Subject :BIOSAFETY, INTELLECTUAL PROPERTY RIGHTS AND ENTERPRENEURSHIP

Assessment of Students(2021-2022)

S.N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessme nt	70 % of C	Indirect Assessment			Total of Indirect Assessme nt (E)	30 % of E	Total Assessme nt (D+F)=G	Percentag e of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			Extern al Marks (A)	Internal Marks (B)	100	70	Assignme nt	Attendan ce	Behaviou r / Attitude		15		
				Class Test/ Unit Test			20	20	10				
				Sessiona l Test									
1	R180855128001	Aakash nadiya	34	40	74	51.8	18	17	8	43	12.9	64.7	76.11765
2	R180855128002	AAS MOHD	40	38	78	54.6	19	19	7	45	13.5	68.1	80.11765
3	R180855128003	ABHISHEK RANA	40	44	84	58.8	18	18	8	44	13.2	72	84.70588
4	R180855128004	ADITYA KUMAR	31	40	71	49.7	19	19	9	47	14.1	63.8	75.05882
5	R180855128005	AJAY PAL	28	48	76	53.2	18	18	9	45	13.5	66.7	78.47059
6	R180855128006	AKSHAY KUMAR	32	47	79	55.3	18	19	8	45	13.5	68.8	80.94118
7	R180855128007	AMIT KUMAR	36	44	80	56	19	18	9	46	13.8	69.8	82.11765
8	R170855133004	ANJU	36	40	76	53.2	19	18	7	44	13.2	66.4	78.11765
9	R170855133006	ANKIT KUMAR	40	48	88	61.6	18	18	8	44	13.2	74.8	88
10	R180855128009	ANUKUL TYAGI	45	49	94	65.8	18	17	8	43	12.9	78.7	92.58824
11	R180855128010	ANURADHA PAL	38	48	86	60.2	19	19	9	47	14.1	74.3	87.41176
12	R170855133008	ANUSHKA	28	46	74	51.8	17	18	7	42	12.6	64.4	75.76471
13	R180855128011	ARVIND KUMAR	45	39	84	58.8	19	17	7	44	13.2	72	84.70588



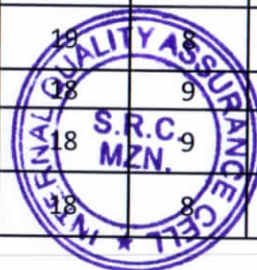
14	R180855128012	BUNTY KUMAR	50	39	89	62.3	18	19	8	45	13.5	75.8	89.17647
15	R180855128013	CHANDRA PRAKASH	45	40	85	59.5	19	18	9	46	13.8	73.3	86.23529
16	R180855128015	Hardeep singh	47	39	86	60.2	19	18	9	46	13.8	74	87.05882
17	R180855128016	JUVAIR	53	39	92	64.4	18	17	8	43	12.9	77.3	90.94118
18	R180855128029	KM PRACHI	53	38	91	63.7	17	19	8	44	13.2	76.9	90.47059
19	R180855128043	KM. SONIYA CHAUDHARY	52	39	91	63.7	19	18	8	45	13.5	77.2	90.82353
20	R180855128018	MOHD MUSTAFA	42	36	78	54.6	19	17	9	45	13.5	68.1	80.11765
21	R180855128019	MOHD SARHAN	38	44	82	57.4	18	18	8	44	13.2	70.6	83.05882
22	R180855128020	MOHIT RANA	33	49	82	57.4	19	17	8	44	13.2	70.6	83.05882
23	R180855128021	MUKUL KUMAR	56	39	95	66.5	18	19	8	45	13.5	80	94.11765
24	R170855133027	MUKUL KUMAR	48	39	87	60.9	19	18	9	46	13.8	74.7	87.88235
25	R180855128022	MUSKAN VASHISHTHA	51	39	90	63	18	18	7	43	12.9	75.9	89.29412
26	R180855128023	NADEEM AHMAD	48	38	86	60.2	17	19	9	45	13.5	73.7	86.70588
27	R180855128024	NADIR ALI	35	44	79	55.3	19	18	8	45	13.5	68.8	80.94118
28	R180855128025	NAMAN SHARMA	46	39	85	59.5	18	17	9	44	13.2	72.7	85.52941
29	R180855128026	NEHA	46	40	86	60.2	17	19	7	43	12.9	73.1	86
30	R180855128027	NITESH KATARIYA	45	40	85	59.5	19	18	8	45	13.5	73	85.88235
31	R180855128028	PARASHANT KUMAR	49	39	88	61.6	19	17	9	45	13.5	75.1	88.35294
32	R180855128031	RITIKA PAL	45	39	84	58.8	18	19	8	45	13.5	72.3	85.05882
33	R180855128032	ROBIN SINGH	52	39	91	63.7	18	18	9	45	13.5	77.2	90.82353



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Assessment of Students (2021-2022)

S.N O	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assignment	Attendance	Behavior / Attitude		15		
				Class Test/ Unit Test			20	20	10				
				Sessional Test									
1	R180855128001	Aakash nadiya	40	38	78	54.6	18	18	9	45	13.5	68.1	80.11765
2	R180855128002	AAS MOHD	34	44	78	54.6	18	18	8	44	13.2	67.8	79.76471
3	R180855128003	ABHISHEK RANA	35	48	83	58.1	19	19	9	47	14.1	72.2	84.94118
4	R180855128004	ADITYA KUMAR	30	49	79	55.3	17	17	7	41	12.3	67.6	79.52941
5	R180855128005	AJAY PAL	35	46	81	56.7	19	18	8	45	13.5	70.2	82.58824
6	R180855128006	AKSHAY KUMAR	32	49	81	56.7	18	18	9	45	13.5	70.2	82.58824
7	R180855128007	AMIT KUMAR	40	40	80	56	17	19	8	44	13.2	69.2	81.41176
8	R170855133004	ANJU	32	44	76	53.2	17	18	8	43	12.9	66.1	77.76471
9	R170855133006	ANKIT KUMAR	40	40	80	56	18	18	9	45	13.5	69.5	81.76471
10	R180855128009	ANUKUL TYAGI	40	39	79	55.3	19	19	9	47	14.1	69.4	81.64706
11	R180855128010	ANURADHA PAL	36	48	84	58.8	18	18	8	45	13.5	72.3	85.05882
12	R170855133008	ANUSHKA	30	44	74	51.8	18	18	9	45	13.5	65.3	76.82353
13	R180855128011	ARVIND KUMAR	45	40	40	28	19	18	9	46	13.8	41.8	49.17647
14	R180855128012	BUNTY KUMAR	40	39	39	27.3	19	18	8	45	13.5	40.8	48



15	R180855128013	CHANDRA PRAKASH	36	44	44	30.8	18		9	46	13.8	44.6	52.47059
16	R180855128015	Hardeep singh	50	35	35	24.5	19	19	8	46	13.8	38.3	45.05882
17	R180855128016	JUVAIR	40	35	35	24.5	18	18	9	45	13.5	38	44.70588
18	R180855128029	KM PRACHI	50	30	30	21	18	18	9	45	13.5	34.5	40.58824
19	R180855128043	KM. SONIYA CHAUDHARY	45	33	33	23.1	18	18	9	45	13.5	36.6	43.05882
20	R180855128018	MOHD MUSTAFA	45	35	80	56	19	19	7	45	13.5	69.5	81.76471
21	R180855128019	MOHD SARHAN	40	39	39	27.3	18	18	8	44	13.2	40.5	47.64706
22	R180855128020	MOHIT RANA	38	42	42	29.4	18	18	7	43	12.9	42.3	49.76471
23	R180855128021	MUKUL KUMAR	55	30	30	21	19	19	8	46	13.8	34.8	40.94118
24	R170855133027	MUKUL KUMAR	45	33	33	23.1	18	18	8	44	13.2	36.3	42.70588
25	R180855128022	MUSKAN VASHISHTH A	50	30	30	21	19	19	7	45	13.5	34.5	40.58824
26	R180855128023	NADEEM AHMAD	51	30	30	21	18	18	8	44	13.2	34.2	40.23529
27	R180855128024	NADIR ALI	50	33	33	23.1	19	19	8	46	13.8	36.9	43.41176
28	R180855128025	NAMAN SHARMA	52	38	38	26.6	19	18	8	45	13.5	40.1	47.17647
29	R180855128026	NEHA	47	39	39	27.3	18	19	9	46	13.8	41.1	48.35294
30	R180855128027	NITESH KATARIYA	50	33	83	58.1	18	19	9	46	13.8	71.9	84.58824
31	R180855128028	PARASHAN T KUMAR	52	30	82	57.4	19	19	8	46	13.8	71.2	83.76471
32	R180855128031	RITIKA PAL	50	30	80	56	19	18	9	46	13.8	69.8	82.11765
33	R180855128032	ROBIN SINGH	51	33	84	58.8	18	19	8	45	13.5	72.3	85.05882



Signature

ASSESSMENT FOR PROGRAMME TARGET VALUE

Course Name	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
PLANT BIOTECHNOLOGY	BSC(BT) 301	1.00	1.75	2.25	1.50	1.25	1.50	2.25
ANIMAL BIOTECHNOLOGY	BSC(BT) 302	2.00	1.75	1.00	2.00	2.00	1.75	1.75
MOLECULAR VIROLOGY	BSC(BT) 303	1.80	2.20	1.80	1.80	2.20	1.80	1.40
NANOBIOTECHNOLOGY	BSC(BT) 304	1.40	1.40	1.80	1.20	0.40	1.60	1.40
ENVIRONMENTAL BIOTECHNOLOGY	BSC(BT) 305	1.75	1.50	1.50	0.50	1.00	2.25	1.75
INDUSTRIAL BIOTECHNOLOGY	BSC(BT) 306	2.00	2.00	2.00	0.75	0.75	1.00	2.25
GENOMICS AND PROTEOMICS	BSC(BT) 307	1.75	1.75	1.50	1.50	1.75	1.25	2.40
BIO SAFETY, INTELLECTUAL PROPERTY RIGHTS AND ENTERPRENEURSHIP DEVELOPMENT	BSC(BT) 308	2.00	2.25	2.75	2.50	1.75	2.00	1.75
RECENT TRENDS IN BIOTECHNOLOGY	BSC(BT) 309	1.25	1.75	1.75	1.75	1.75	3.75	1.50
AVERAGE TARGET VALUE		1.66	1.82	1.82	1.50	1.43	1.88	1.83



ASSESSMENT OF ATTAINMENT FOR PROGRAMME OUTCOME

Course Name	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
PLANT BIOTECHNOLOGY	BSC(BT) 301	1.00	1.75	2.25	1.50	1.25	1.50	2.25
ANIMAL BIOTECHNOLOGY	BSC(BT) 302	2.00	1.75	1.00	2.00	2.00	1.75	1.75
MOLECULAR VIROLOGY	BSC(BT) 303	1.80	2.20	1.80	1.80	2.20	1.80	1.40
NANOBIOTECHNOLOGY	BSC(BT) 304	1.40	1.40	1.80	1.20	0.40	1.60	1.40
ENVIRONMENTAL BIOTECHNOLOGY	BSC(BT) 305	1.75	1.50	1.50	0.50	1.00	2.25	1.75
INDUSTRIAL BIOTECHNOLOGY	BSC(BT) 306	2.00	2.00	2.00	0.75	0.75	1.00	2.25
GENOMICS AND PROTEOMICS	BSC(BT) 307	1.75	1.75	1.50	1.50	1.75	1.25	2.40
BIOSAFETY, INTELLECTUAL PROPERTY RIGHTS AND ENTREPRENEURSHIP DEVELOPMENT	BSC(BT) 308	2.00	2.25	2.75	2.50	1.75	2.00	1.75
RECENT TRENDS IN BIOTECHNOLOGY	BSC(BT) 309	1.25	1.75	1.75	1.75	1.75	3.75	1.50
PO Attainment through Results		1.66	1.82	1.82	1.50	1.43	1.88	1.83

80 % of PO Attainment through Results (A)	1.32	1.45	1.45	1.2	1.14	1.5	1.46
Alumni Survey	2	2	3	2	3	2	2
10 % of Alumni Survey (B)	0.2	0.2	0.3	0.2	0.3	0.2	0.2
Employer/ Professional Survey	2	2	3	3	3	2	3
10 % of Employer Survey (C)	0.2	0.2	0.3	0.3	0.3	0.2	0.3
PO Attainment Value A+B+C	1.72	1.85	2.05	1.7	1.74	1.9	1.96
Target Value	1.66	1.82	1.82	1.50	1.43	1.88	1.83
Gap Value	0.06	0.03	0.23	0.2	0.31	0.02	0.13
Programme Attainment Status	yes	yes	yes	yes	yes	yes	yes



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Subject Name: PLANT BIOTECHNOLOGY

Code: BSC- 301

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	1	2	2	1	0	1	2
COs - 2		2	1	2	2	1	2	2
COs - 3		1	2	2	2	2	2	3
COs -4		0	2	3	1	2	1	2
Average		1.00	1.75	2.25	1.50	1.25	1.50	2.25
Average Attainment		1.00	1.75	2.25	1.50	1.25	1.50	2.25

Subject Name: ANIMAL BIOTECHNOLOGY

Code: BSC- 302

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	2	2	2	2	2	1	1
COs - 2		3	1	2	3	3	2	2
COs - 3		2	1	3	2	1	3	3
COs - 4		1	3	2	1	2	1	1
Average		2	1.75	1	2	2	1.75	1.75
Average Attainment		2	1.75	1	2	2	1.75	1.75

Subject Name: MOLECULAR VIROLOGY

Code: BSC- 303

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	2	3	2	2	2	1	2
COs - 2		1	2	1	3	3	2	1
COs - 3		3	2	3	2	1	3	2
COs - 4		1	1	2	1	2	2	1
COs - 5		2	3	1	1	3	1	1
Average		1.8	2.2	1.8	1.8	2.2	1.8	1.4
Average Attainment		1.8	2.2	1.8	1.8	2.2	1.8	1.4

Subject Name: NANOBIO TECHNOLOGY

Code: BSC- 304

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	1	1	1	1	0	2	1
COs - 2		1	2	2	1	1	2	2
COs - 3		2	1	2	2	1	1	1
COs - 4		2	1	2	1	0	2	2
COs - 5		1	2	2	1	0	1	1
Average		1.4	1.4	1.8	1.2	0.4	1.6	1.4
Average Attainment		1.4	1.4	1.8	1.2	0.4	1.6	1.4

Subject Name: ENVIRONMENTAL BIOTECHNOLOGY

Code: BSC- 305

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	3	1	1	0	1	2	2
COs - 2		2	1	2	1	2	2	2
COs - 3		1	2	1	1	1	3	2
COs - 4		2	2	2	0	0	2	1
Average		1.75	1.5	1.5	0.5	1	2.25	1.75
Average Attainment		1.75	1.5	1.5	0.5	1	2.25	1.75



Subject Name: INDUSTRIAL BIOTECHNOLOGY

Code: BSC- 306

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	2	2	2	1	1	0	2
COs - 2		3	1	1	2	1	1	3
COs - 3		2	3	3	0	1	2	2
COs - 4		1	2	2	0	0	1	2
Average		2	2	2	0.75	0.75	1	2.25
Average Attainment		2	2	2	0.75	0.75	1	2.25

Subject Name: GENOMICS AND PROTEOMICS

Code: BSC- 307

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1		3	1	3	1	0	2	3
COs - 2		2	3	2	0	1	1	2
Cos 3	3	2	2	1	1	0	2	3
Cos-4		3	2	3	2	1	1	2
Average		1.75	1.75	1.5	1.5	1.75	1.25	2
Average Attainment		1.75	1.75	1.5	1.5	1.75	1.25	2.4

Subject Name: BIOSAFETY, INTELLECTUAL PROPERTY RIGHTS AND ENTERPRENEURSHIP DEVELOPMENT

Code: BSC- 308

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1		3	2	3	2	1	2	2
COs - 2	3	2	3	2	2	2	1	2
COs - 3		1	2	3	3	2	3	2
COs - 4		2	2	3	3	2	2	1
Average		2	2.25	2.75	2.5	1.75	2	1.75
Average Attainment		2	2.25	2.75	2.5	1.75	2	1.75

Subject Name: RECENT TRENDS IN BIOTECHNOLOGY

Code: BSC- 309

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	2	2	3	2	2	1	2
COs - 2		1	1	1	2	1	2	1
COs - 3		0	2	2	1	2	12	1
COs - 4		2	2	1	2	2	0	2
Average		1.25	1.75	1.75	1.75	1.75	3.75	1.5
Average Attainment		1.25	1.75	1.75	1.75	1.75	3.75	1.5



Thank

Methodology to Evaluate Course & Program Outcomes

Direct Assessment (External + Internal)	70%
Indirect Assessment (AT + Assignment + TA)	30%

Direct Assessment Benchmark		40%		
Level 1	60%	60% Students secure more than 40% marks	Points	
1				
Level 2	70%	70% Students secure more than 40% marks	Points	
2				
Level 3	80%	80% Students secure more than 40% marks	Points	
3				

Indirect Assessment Benchmark		40%		
Level 1	60%	60% Students secure more than 40% marks	Points	1
Level 2	70%	70% Students secure more than 40% marks	Points	
2				
Level 3	80%	80% Students secure more than 40% marks	Points	
3				

Program Outcomes (POs) [For Traditional Courses]

- PO1.Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- PO2.Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- PO3.Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- PO4.Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- PO5. Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
- PO6. Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
- PO7. Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

CO & PO Mapping

(Three Levels: 3-Strongly Related, 2-Moderately Related, 1-Slightly Related)



Name of Programme : M.SC (BIOTECHNOLOGY)

Name of Course/ Subject : GENOMICS AND PROTEOMICS

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	R1708551741	AMRITA CHOPRA	72	20	92	64.4	17	17	7	41	12.3	27.7	32.59
2	R1708551742	ARBAZ	75	24	99	69.3	19	19	7	45	14.1	57.5	67.65
3	R1708551743	AVISHANT	74	22	96	67.2	16	18	8	42	13.2	50.3	59.18
4	R1708551744	HUMA RANA	74	22	96	67.2	18	17	8	43	13.2	28.6	33.65
5	R1708551745	HUMA RANA	74	21	95	66.5	17	17	7	41	12.3	54.3	63.88
6	R1708551746	IMRAN ALAM	75	24	99	69.3	19	19	9	47	14.1	55.4	65.18
7	R1708551747	KM ANAMIKA	76	21	97	67.9	17	17	7	41	12.3	53.6	63.06
8	R1708551748	KM RADHA	72	25	97	67.9	19	18	9	46	14.1	58.2	68.47
9	R1708551750	KM REETU	69	21	90	63	17	17	7	41	12.3	50.1	58.94



10	R1708551751	KM RUPA RANI	63	21	84	58.8	17	17	7	41	12.3	48.7	57.29
11	R1708551752	KM SHIVANI DEVI	75	21	96	67.2	17	14	7	38	12.3	42.4	49.88
12	R1708551753	MITANSHI SINGH	74	22	96	67.2	18	17	8	43	13.2	41.2	48.47
13	R1708551754	NIKITA SINGH	69	21	90	63	17	17	7	41	12.3	34	40
14	R1708551755	NIKUNJ KUMAR	70	21	91	63.7	17	17	7	41	12.3	36.1	42.47
15	R1708551756	NIVYA	74	20	94	65.8	17	17	7	41	12.3	26.3	30.94
16	R1708551758	SAKSHI SAINI	71	23	94	65.8	18	18	8	44	13.2	32.8	38.59
17	R1708551759	SANA PRAVEEN	72	21	93	65.1	17	17	7	41	12.3	29.8	35.06
18	R1708551760	SANJAY KUMAR	73	23	96	67.2	18	18	8	44	13.2	32.1	37.76
19	R1708551761	SRIKANT	74	23	97	67.9	18	18	8	44	13.2	43.3	50.94
20	R1708551762	SUNDAR LAL	71	23	94	65.8	18	18	8	44	13.2	58.7	69.06
21	R1708551763	UJALA	79	18	97	67.9	16	16	7	39	11.7	41.1	48.35
22	R1708551766	VIKAS PUNDIR	2	21	23	16.1	17	17	7	41	12.3	28.4	33.41
23	R1708551767	VISHAL KUMAR	11	25	36	25.2	19	19	9	47	14.1	39.3	46.24
24	R1708551769	VISHAL KUMAR	17	23	40	28	18	18	8	44	13.2	41.2	48.47



Signature

Name of Programme : M.SC (BIOTECHNOLOGY)

Name of Course/ Subject : ANIMAL BIOTECHNOLOGY AND

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	R1708551741	AMRITA CHOPRA	72	20	92	64.4	17	17	7	41	12.3	27.7	32.59
2	R1708551742	ARBAZ	75	24	99	69.3	19	19	7	45	14.1	57.5	67.65
3	R1708551743	AVISHANT	74	22	96	67.2	16	18	8	42	13.2	50.3	59.18
4	R1708551744	HUMARANA	74	22	96	67.2	18	17	8	43	13.2	28.6	33.65
5	R1708551745	HUMARANA	74	21	95	66.5	17	17	7	41	12.3	54.3	63.88
6	R1708551746	IMRAN ALAM	75	24	99	69.3	19	19	9	47	14.1	55.4	65.18
7	R1708551747	KM ANAMIKA	76	21	97	67.9	17	17	7	41	12.3	53.6	63.06



8	R1708551748	KM RADHA	72	25	97	67.9	19	18	9	46	14.1	58.2	68.47
9	R1708551750	KM REETU	69	21	90	63	17	17	7	41	12.3	50.1	58.94
10	R1708551751	KM RUPA RANI	63	21	84	58.8	17	17	7	41	12.3	48.7	57.29
11	R1708551752	KM SHIVANI DEVI	75	21	96	67.2	17	14	7	38	12.3	42.4	49.88
12	R1708551753	MITANSHI SINGH	74	22	96	67.2	18	17	8	43	13.2	41.2	48.47
13	R1708551754	NIKITA SINGH	69	21	90	63	17	17	7	41	12.3	34	40
14	R1708551755	NIKUNJ KUMAR	70	21	91	63.7	17	17	7	41	12.3	36.1	42.47
15	R1708551756	NIVYA	74	20	94	65.8	17	17	7	41	12.3	26.3	30.94
16	R1708551758	SAKSHI SAINI	71	23	94	65.8	18	18	8	44	13.2	32.8	38.59
17	R1708551759	SANA PRAVEEN	72	21	93	65.1	17	17	7	41	12.3	29.8	35.06
18	R1708551760	SANJAY KUMAR	73	23	96	67.2	18	18	8	44	13.2	32.1	37.76
19	R1708551761	SRIKANT	74	23	97	67.9	18	18	8	44	13.2	43.3	50.94
20	R1708551762	SUNDAR LAL	71	23	94	65.8	18	18	8	44	13.2	58.7	69.06
21	R1708551763	UJALA	79	18	97	67.9	16	16	7	39	11.7	41.1	48.35
22	R1708551766	VIKAS PUNDIR	2	21	23	16.1	17	17	7	41	12.3	28.4	33.41
23	R1708551767	VISHAL KUMAR	11	25	36	25.2	19	19	9	47	14.1	39.3	46.24
24	R1708551769	VISHAL KUMAR	17	23	48	18	18	8	8	44	13.2	41.2	48.47



Signature

Name of Programme : M.SC (BIOTECHNOLOGY)

Name of Course/ Subject : CONCEPTS OF NANO TECHNOLOGY

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	R1708551741	AMRITA CHOPRA	72	20	92	64.4	17	17	7	41	12.3	27.7	32.59
2	R1708551742	ARBAZ	75	24	99	69.3	19	19	7	45	14.1	57.5	67.65
3	R1708551743	AVISHANT	74	22	96	67.2	16	18	8	42	13.2	50.3	59.18
4	R1708551744	HUMARANA	74	22	96	67.2	18	17	8	43	13.2	28.6	33.65
5	R1708551745	HUMARANA	74	21	95	66.5	17	17	7	41	12.3	54.3	63.88
6	R1708551746	IMRAN ALAM	75	24	99	69.3		19	9	47	14.1	55.4	65.18
7	R1708551747	KM ANAMIKA	76	21	97	67.9		17	7	41	12.3	53.6	63.06
8	R1708551748	KM RADHA	72	25	97	67.9		18	9	46	14.1	58.2	68.47



9	R1708551750	KM REETU	69	21	90	63	17	17	7	41	12.3	50.1	58.94
10	R1708551751	KM RUPA RANI	63	21	84	58.8	17	17	7	41	12.3	48.7	57.29
11	R1708551752	KM SHIVANI DEVI	75	21	96	67.2	17	14	7	38	12.3	42.4	49.88
12	R1708551753	MITANSHI SINGH	74	22	96	67.2	18	17	8	43	13.2	41.2	48.47
13	R1708551754	NIKITA SINGH	69	21	90	63	17	17	7	41	12.3	34	40
14	R1708551755	NIKUNJ KUMAR	70	21	91	63.7	17	17	7	41	12.3	36.1	42.47
15	R1708551756	NIVYA	74	20	94	65.8	17	17	7	41	12.3	26.3	30.94
16	R1708551758	SAKSHI SAINI	71	23	94	65.8	18	18	8	44	13.2	32.8	38.59
17	R1708551759	SANA PRAVEEN	72	21	93	65.1	17	17	7	41	12.3	29.8	35.06
18	R1708551760	SANJAY KUMAR	73	23	96	67.2	18	18	8	44	13.2	32.1	37.76
19	R1708551761	SRIKANT	74	23	97	67.9	18	18	8	44	13.2	43.3	50.94
20	R1708551762	SUNDAR LAL	71	23	94	65.8	18	18	8	44	13.2	58.7	69.06
21	R1708551763	UJALA	79	18	97	67.9	16	16	7	39	11.7	41.1	48.35
22	R1708551766	VIKAS PUNDIR	2	21	23	16.1	17	17	7	41	12.3	28.4	33.41
23	R1708551767	VISHAL KUMAR	11	36	25.2	19	19	9	47	14.1	39.3	46.24	
24	R1708551769	VISHAL KUMAR	17	40	28	18	18	8	44	13.2	41.2	48.47	



Signature

Name of Programme : M.SC (BIOTECHNOLOGY)

Name of Course/ Subject : RECOMBINANT DNA TECHNOLOGY AND

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	R1708551741	AMRITA CHOPRA	72	20	92	64.4	17	17	7	41	12.3	27.7	32.59
2	R1708551742	ARBAZ	75	24	99	69.3	19	19	7	45	14.1	57.5	67.65
3	R1708551743	AVISHANT	74	22	96	67.2	16	18	8	42	13.2	50.3	59.18
4	R1708551744	HUMARANA	74	22	96	67.2	18	17	8	43	13.2	28.6	33.65
5	R1708551745	HUMARANA	74	21	95	66.5	17	17	7	41	12.3	54.3	63.88
6	R1708551746	IMRAN ALAM	75	24	99	69.3	19	19	9	47	14.1	55.4	65.18
7	R1708551747	KM ANAMIKA	76	21	97	67.9	17	17	7	41	12.3	53.6	63.06
8	R1708551748	KM RADHA	72	25	97	67.9	19	18	9	46	14.1	58.2	68.47



9	R1708551750	KM REETU	69	21	90	63	17	17	7	41	12.3	50.1	58.94
10	R1708551751	KM RUPA RANI	63	21	84	58.8	17	17	7	41	12.3	48.7	57.29
11	R1708551752	KM SHIVANI DEVI	75	21	96	67.2	17	14	7	38	12.3	42.4	49.88
12	R1708551753	MITANSHI SINGH	74	22	96	67.2	18	17	8	43	13.2	41.2	48.47
13	R1708551754	NIKITA SINGH	69	21	90	63	17	17	7	41	12.3	34	40
14	R1708551755	NIKUNJ KUMAR	70	21	91	63.7	17	17	7	41	12.3	36.1	42.47
15	R1708551756	NIVYA	74	20	94	65.8	17	17	7	41	12.3	26.3	30.94
16	R1708551758	SAKSHI SAINI	71	23	94	65.8	18	18	8	44	13.2	32.8	38.59
17	R1708551759	SANA PRAVEEN	72	21	93	65.1	17	17	7	41	12.3	29.8	35.06
18	R1708551760	SANJAY KUMAR	73	23	96	67.2	18	18	8	44	13.2	32.1	37.76
19	R1708551761	SRIKANT	74	23	97	67.9	18	18	8	44	13.2	43.3	50.94
20	R1708551762	SUNDAR LAL	71	23	94	65.8	18	18	8	44	13.2	58.7	69.06
21	R1708551763	UJALA	79	18	97	67.9	16	16	7	39	11.7	41.1	48.35
22	R1708551766	VIKAS PUNDIR	2	21	23	16.1	17	17	7	41	12.3	28.4	33.41
23	R1708551767	VISHAL KUMAR	11	25	36	25.2	19	19		47	14.1	39.3	46.24
24	R1708551769	VISHAL KUMAR	17	23	40	28	18	18		44	13.2	41.2	48.47



Signature

Name of Programme : M.SC (BIOTECHNOLOGY)

Name of Course/ Subject : MICROBIAL ,INDUSTRIAL AND

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment	Attendance	Behaviour / Attitude		15		
					20		20	20	10				
1	R1708551741	AMRITA CHOPRA	72	20	92	64.4	17	17	7	41	12.3	27.7	32.59
2	R1708551742	ARBAZ	75	24	99	69.3	19	19	7	45	14.1	57.5	67.65
3	R1708551743	AVISHANT	74	22	96	67.2	16	18	8	42	13.2	50.3	59.18
4	R1708551744	HUMARANA	74	22	96	67.2	18	17	8	43	13.2	28.6	33.65
5	R1708551745	HUMARANA	74	21	95	66.5	17	17	7	41	12.3	54.3	63.88
6	R1708551746	IMRAN ALAM	75	24	99	69.3	19	19	9	47	14.1	55.4	65.18
7	R1708551747	KM ANAMIKA	76	21	97	67.9	17	17	7	41	12.3	53.6	63.06
8	R1708551748	KM RADHA	72	25	97	67.9	17	18	9	46	14.1	58.2	68.47

9	R170855 1750	KM REETU	69	21	90	63	17	17	7	41	12.3	50.1	58.94
10	R170855 1751	KM RUPA RANI	63	21	84	58.8	17	17	7	41	12.3	48.7	57.29
11	R170855 1752	KM SHIVANI DEVI	75	21	96	67.2	17	14	7	38	12.3	42.4	49.88
12	R170855 1753	MITANSHI SINGH	74	22	96	67.2	18	17	8	43	13.2	41.2	48.47
13	R170855 1754	NIKITA SINGH	69	21	90	63	17	17	7	41	12.3	34	40
14	R170855 1755	NIKUNJ KUMAR	70	21	91	63.7	17	17	7	41	12.3	36.1	42.47
15	R170855 1756	NIVYA	74	20	94	65.8	17	17	7	41	12.3	26.3	30.94
16	R170855 1758	SAKSHI SAINI	71	23	94	65.8	18	18	8	44	13.2	32.8	38.59
17	R170855 1759	SANA PRAVEEN	72	21	93	65.1	17	17	7	41	12.3	29.8	35.06
18	R170855 1760	SANJAY KUMAR	73	23	96	67.2	18	18	8	44	13.2	32.1	37.75
19	R170855 1761	SRIKANT	74	23	97	67.9	18	18	8	44	13.2	43.3	50.94
20	R170855 1762	SUNDAR LAL	71	23	94	65.8	18	18	8	44	13.2	58.7	69.06
21	R170855 1763	UJALA	79	18	97	67.9	16	16	7	39	11.7	41.1	48.35
22	R170855 1766	VIKAS PUNDIR	2	21	23	16.1	17	17	7	41	12.3	28.4	33.41
23	R170855 1767	VISHAL KUMAR	11	25	36	25.2	19	19		47	14.1	39.3	46.24
24	R170855 1769	VISHAL KUMAR	17	23	40	28	18	18		44	13.2	41.2	48.47



Signature

Name of Programme : M.SC (BIOTECHNOLOGY)

Name of Course/ Subject : BIOTECHNOLOGY IN CROP

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behavior / Attitude 10		15		
1	R1708551741	AMRITA CHOPRA	72	20	92	64.4	17	17	7	41	12.3	27.7	32.59
2	R1708551742	ARBAZ	75	24	99	69.3	19	19	7	45	14.1	57.5	67.65
3	R1708551743	AVISHANT	74	22	96	67.2	16	18	8	42	13.2	50.3	59.18
4	R1708551744	HUMARANA	74	22	96	67.2	18	17	8	43	13.2	28.6	33.65
5	R1708551745	HUMARANA	74	21	95	66.5	17	17	7	41	12.3	54.3	63.88
6	R1708551746	IMRAN ALAM	75	24	99	69.3	19	19	9	47	14.1	55.4	65.18
7	R1708551747	KM ANAMIKA	76	21	97	67.9	17	17	7	41	12.3	53.6	63.06
8	R1708551748	KM RADHA	72	25	97	67.9	18	18	9	46	14.1	58.2	68.47
9	R1708551750	KM REETU	69	21	90	67.9	17	17	7	41	12.3	50.1	58.94

10	R1708551751	KM RUPA RANI	63	21	84	58.8	17	17	7	41	12.3	48.7	57.29
11	R1708551752	KM SHIVANI DEVI	75	21	96	67.2	17	14	7	38	12.3	42.4	49.88
12	R1708551753	MITANSHI SINGH	74	22	96	67.2	18	17	8	43	13.2	41.2	48.47
13	R1708551754	NIKITA SINGH	69	21	90	63	17	17	7	41	12.3	34	40
14	R1708551755	NIKUNJ KUMAR	70	21	91	63.7	17	17	7	41	12.3	36.1	42.47
15	R1708551756	NIVYA	74	20	94	65.8	17	17	7	41	12.3	26.3	30.94
16	R1708551758	SAKSHI SAINI	71	23	94	65.8	18	18	8	44	13.2	32.8	38.59
17	R1708551759	SANA PRAVEEN	72	21	93	65.1	17	17	7	41	12.3	29.8	35.06
18	R1708551760	SANJAY KUMAR	73	23	96	67.2	18	18	8	44	13.2	32.1	37.76
19	R1708551761	SRIKANT	74	23	97	67.9	18	18	8	44	13.2	43.3	50.94
20	R1708551762	SUNDAR LAL	71	23	94	65.8	18	18	8	44	13.2	58.7	69.06
21	R1708551763	UJALA	79	18	97	67.9	16	16	7	39	11.7	41.1	48.35
22	R1708551766	VIKAS PUNDIR	2	21	23	16.1	17	17	7	41	12.3	28.4	33.41
23	R1708551767	VISHAL KUMAR	11	25	36	25.2	19	19	9	47	14.1	39.3	46.24
24	R1708551769	VISHAL KUMAR	17	23	40	28	18	18	8	44	13.2	41.2	48.47



Signature

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	R1708551741	AMRITA CHOPRA	72	20	92	64.4	17	17	7	41	12.3	27.7	32.59
2	R1708551742	ARBAZ	75	24	99	69.3	19	19	7	45	14.1	57.5	67.65
3	R1708551743	AVISHANT	74	22	96	67.2	16	18	8	42	13.2	50.3	59.18
4	R1708551744	HUMARANA	74	22	96	67.2	18	17	8	43	13.2	28.6	33.65
5	R1708551745	HUMARANA	74	21	95	66.5	17	17	7	41	12.3	54.3	63.88
6	R1708551746	IMRAN ALAM	75	24	99	69.3	19	19	9	47	14.1	55.4	65.18
7	R1708551747	KM ANAMIKA	76	21	97	67.2	17	17	7	41	12.3	53.6	63.06
8	R1708551748	KM RADHA	72	25	97	67.2	19	18	9	46	14.1	58.2	68.47



9	R1708551750	KM REETU	69	21	90	63	17		7	41	12.3	50.1	58.94
10	R1708551751	KM RUPA RANI	63	21	84	58.8	17	17	7	41	12.3	48.7	57.29
11	R1708551752	KM SHIVANI DEVI	75	21	96	67.2	17	14	7	38	12.3	42.4	49.88
12	R1708551753	MITANSHI SINGH	74	22	96	67.2	18	17	8	43	13.2	41.2	48.47
13	R1708551754	NIKITA SINGH	69	21	90	63	17	17	7	41	12.3	34	40
14	R1708551755	NIKUNJ KUMAR	70	21	91	63.7	17	17	7	41	12.3	36.1	42.47
15	R1708551756	NIVYA	74	20	94	65.8	17	17	7	41	12.3	26.3	30.94
16	R1708551758	SAKSHI SAINI	71	23	94	65.8	18	18	8	44	13.2	32.8	38.59
17	R1708551759	SANA PRAVEEN	72	21	93	65.1	17	17	7	41	12.3	29.8	35.06
18	R1708551760	SANJAY KUMAR	73	23	96	67.2	18	18	8	44	13.2	32.1	37.76
19	R1708551761	SRIKANT	74	23	97	67.9	18	18	8	44	13.2	43.3	50.94
20	R1708551762	SUNDAR LAL	71	23	94	65.8	18	18	8	44	13.2	58.7	69.06
21	R1708551763	UJALA	79	18	97	67.9	16	16	7	39	11.7	41.1	48.35
22	R1708551766	VIKAS PUNDIR	2	21	23	16.1	17	17	7	41	12.3	28.4	33.41
23	R1708551767	VISHAL KUMAR	11	25	36	12.2	19	19	9	47	14.1	39.3	46.24
24	R1708551769	VISHAL KUMAR	17	23	40	16.1	18	18	8	44	13.2	41.2	48.47



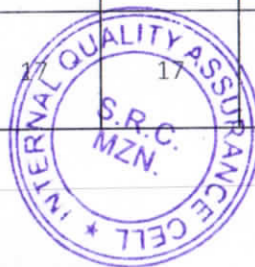
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Name of Programme : M.SC (BIOTECHNOLOGY)

Name of Course/ Subject : STAISTICAL METHODS AND

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	R1708551741	AMRITA CHOPRA	72	20	92	64.4	17	17	7	41	12.3	27.7	32.59
2	R1708551742	ARBAZ	75	24	99	69.3	19	19	7	45	14.1	57.5	67.65
3	R1708551743	AVISHANT	75	22	97	67.9	18	18	8	44	13.2	50.3	59.18
4	R1708551744	HUMARANA	75	22	97	67.9	18	18	8	44	13.2	28.6	33.65
5	R1708551745	HUMARANA	74	21	95	66.5	17	17	7	41	12.3	54.3	63.88
6	R1708551746	IMRAN ALAM	75	24	99	69.3	19	19	9	47	14.1	55.4	65.18
7	R1708551747	KM ANAMIKA	78	21	99	69.3	17	17	7	41	12.3	53.6	63.06



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8	R1708551748	KM RADHA	72	25	97	67.9	19	19	9	47	14.1	58.2	68.47
9	R1708551750	KM REETU	69	21	90	63	17	17	7	41	12.3	50.1	58.94
10	R1708551751	KM RUPA RANI	63	21	84	58.8	17	17	7	41	12.3	48.7	57.29
11	R1708551752	KM SHIVANI DEVI	77	21	98	68.6	17	17	7	41	12.3	42.4	49.88
12	R1708551753	MITANSHI SINGH	74	22	96	67.2	18	18	8	44	13.2	41.2	48.47
13	R1708551754	NIKITA SINGH		21	21	14.7	17	17	7	41	12.3	34	40
14	R1708551755	NIKUNJ KUMAR	70	21	91	63.7	17	17	7	41	12.3	36.1	42.47
15	R1708551756	NIVYA	74	20	94	65.8	17	17	7	41	12.3	26.3	30.94
16	R1708551758	SAKSHI SAINI	71	23	94	65.8	18	18	8	44	13.2	32.8	38.59
17	R1708551759	SANA PRAVEEN	81	21	102	71.4	17	17	7	41	12.3	29.8	35.06
18	R1708551760	SANJAY KUMAR	73	23	96	67.2	18	18	8	44	13.2	32.1	37.76
19	R1708551761	SRIKANT	74	23	97	67.9	18	18	8	44	13.2	43.3	50.94
20	R1708551762	SUNDAR LAL	71	23	94	65.8	18	18	8	44	13.2	58.7	69.06
21	R1708551763	UJALA	79	18	97	67.9	16	16	7	39	11.7	41.1	48.35
22	R1708551766	VIKAS PUNDIR	2	21	23	16.1	17	17	7	41	12.3	28.4	33.41
23	R1708551767	VISHAL KUMAR	11	25	36	25.2	19		9	47	14.1	39.3	46.24
24	R1708551769	VISHAL KUMAR	17	23	40	28	18		8	44	13.2	41.2	48.47



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Name of Programme : M.SC (BIOTECHNOLOGY)

Name of Course/ Subject : FUNDAMENTAL OF BIOCHEMISTRY

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	R1708551741	AMRITA CHOPRA	72	20	92	64.4	17	17	7	41	12.3	27.7	32.59
2	R1708551742	ARBAZ	75	24	99	69.3	19	19	7	45	14.1	57.5	67.65
3	R1708551743	AVISHANT	74	22	96	67.2	16	18	8	42	13.2	50.3	59.18
4	R1708551744	HUMARANA	74	22	96	67.2	18	17	8	43	13.2	28.6	33.65
5	R1708551745	HUMARANA	74	21	95	66.5	17	17	7	41	12.3	54.3	63.88
6	R1708551746	IMRAN ALAM	75	24	99	69.3	19	19	9	47	14.1	55.4	65.18
7	R1708551747	KM ANAMIKA	76	21	97	67.9	17	17		41	12.3	53.6	63.06
8	R1708551748	KM RADHA	72	25	97	67.9	19	18		46	14.1	58.2	68.47



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9	R1708551750	KM REETU	69	21	90	63	17	17	7	41	12.3	50.1	58.94
10	R1708551751	KM RUPA RANI	63	21	84	58.8	17	17	7	41	12.3	48.7	57.29
11	R1708551752	KM SHIVANI DEVI	75	21	96	67.2	17	14	7	38	12.3	42.4	49.88
12	R1708551753	MITANSHI SINGH	74	22	96	67.2	18	17	8	43	13.2	41.2	48.47
13	R1708551754	NIKITA SINGH	69	21	90	63	17	17	7	41	12.3	34	40
14	R1708551755	NIKUNJ KUMAR	70	21	91	63.7	17	17	7	41	12.3	36.1	42.47
15	R1708551756	NIVYA	74	20	94	65.8	17	17	7	41	12.3	26.3	30.94
16	R1708551758	SAKSHI SAINI	71	23	94	65.8	18	18	8	44	13.2	32.8	38.59
17	R1708551759	SANA PRAVEEN	72	21	93	65.1	17	17	7	41	12.3	29.8	35.06
18	R1708551760	SANJAY KUMAR	73	23	96	67.2	18	18	8	44	13.2	32.1	37.76
19	R1708551761	SRIKANT	74	23	97	67.9	18	18	8	44	13.2	43.3	50.94
20	R1708551762	SUNDAR LAL	71	23	94	65.8	18	18	8	44	13.2	58.7	69.06
21	R1708551763	UJALA	79	18	97	67.9	16	16	7	39	11.7	41.1	48.35
22	R1708551766	VIKAS PUNDIR	2	21	23	16.1	17	17	7	41	12.3	28.4	33.41
23	R1708551767	VISHAL KUMAR	11	25	36	25.2	19	19	7	47	14.1	39.3	46.24
24	R1708551769	VISHAL KUMAR	17	23	40	28	18	18	7	44	13.2	41.2	48.47



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Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	R1708551741	AMRITA CHOPRA	72	20	92	64.4	17	17	7	41	12.3	27.7	32.59
2	R1708551742	ARBAZ	75	24	99	69.3	19	19	7	45	14.1	57.5	67.65
3	R1708551743	AVISHANT	74	22	96	67.2	16	18	8	42	13.2	50.3	59.18
4	R1708551744	HUMA RANA	74	22	96	67.2	18	17	8	43	13.2	28.6	33.65
5	R1708551745	HUMA RANA	74	21	95	66.5	17	17	7	41	12.3	54.3	63.88
6	R1708551746	IMRAN ALAM	75	24	99	69.3	19	19	9	47	14.1	55.4	65.18
7	R1708551747	KM ANAMIKA	76	21	97	67.9	17		7	41	12.3	53.6	63.06
8	R1708551748	KM RADHA	72	25	97	67.9	19			46	14.1	58.2	68.47
9	R1708551750	KM REETU	69	21	90	63	17	17	7	41	12.3	50.1	58.94



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10	R1708551751	KM RUPA RANI	63	21	84	58.8	17	17	7	41	12.3	48.7	57.29
11	R1708551752	KM SHIVANI DEVI	75	21	96	67.2	17	14	7	38	12.3	42.4	49.88
12	R1708551753	MITANSHI SINGH	74	22	96	67.2	18	17	8	43	13.2	41.2	48.47
13	R1708551754	NIKITA SINGH	69	21	90	63	17	17	7	41	12.3	34	40
14	R1708551755	NIKUNJ KUMAR	70	21	91	63.7	17	17	7	41	12.3	36.1	42.47
15	R1708551756	NIVYA	74	20	94	65.8	17	17	7	41	12.3	26.3	30.94
16	R1708551758	SAKSHI SAINI	71	23	94	65.8	18	18	8	44	13.2	32.8	38.59
17	R1708551759	SANA PRAVEEN	72	21	93	65.1	17	17	7	41	12.3	29.8	35.06
18	R1708551760	SANJAY KUMAR	73	23	96	67.2	18	18	8	44	13.2	32.1	37.76
19	R1708551761	SRIKANT	74	23	97	67.9	18	18	8	44	13.2	43.3	50.94
20	R1708551762	SUNDAR LAL	71	23	94	65.8	18	18	8	44	13.2	58.7	69.06
21	R1708551763	UJALA	79	18	97	67.9	16	16	7	39	11.7	41.1	48.35
22	R1708551766	VIKAS PUNDIR	2	21	23	16.1	17	17	7	41	12.3	28.4	33.41
23	R1708551767	VISHAL KUMAR	11	25	36	25.2	19	19	9	47	14.1	39.3	46.24
24	R1708551769	VISHAL KUMAR	17	23	40	28	18	18	8	44	13.2	41.2	48.47



Signature

Name of Programme : M.SC (BIOTECHNOLOGY)

Name of Course/ Subject : FUNDAMENTAL OF GENETICS

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	R1708551741	AMRITA CHOPRA	2	20	22	15.4	17	17	7	41	12.3	27.7	32.59
2	R1708551742	ARBAZ	38	24	62	43.4	19	19		47	14.1	57.5	67.65
3	R1708551743	AVISHANT	31	22	53	37.1	18	18	8	44	13.2	50.3	59.18
4	R1708551744	HUMA RANA	0	22	22	15.4	18	18	8	44	13.2	28.6	33.65
5	R1708551745	HUMA RANA	39	21	60	42	17	17	7	41	12.3	54.3	63.88
6	R1708551746	IMRAN ALAM	35	24	59	41.3	19	19	9	47	14.1	55.4	65.18
7	R1708551747	KM ANAMIKA	38	21	59	41.3	17	17	7	41	12.3	53.6	63.06
8	R1708551748	KM RADHA	38	25	63	44.1	19	19	9	47	14.1	58.2	68.47



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9	R1708551750	KM REETU	33	21	54	37.8	17	17	7	41	12.3	50.1	58.94
10	R1708551751	KM RUPA RANI	31	21	52	36.4	17	17	7	41	12.3	48.7	57.29
11	R1708551752	KM SHIVANI DEVI	22	21	43	30.1	17	17	7	41	12.3	42.4	49.88
12	R1708551753	MITANSHI SINGH	18	22	40	28	18	18	8	44	13.2	41.2	48.47
13	R1708551754	NIKITA SINGH	10	21	31	21.7	17	17	7	41	12.3	34	40
14	R1708551755	NIKUNJ KUMAR	13	21	34	23.8	17	17	7	41	12.3	36.1	42.47
15	R1708551756	NIVYA	0	20	20	14	17	17	7	41	12.3	26.3	30.94
16	R1708551758	SAKSHI SAINI	5	23	28	19.6	18	18	8	44	13.2	32.8	38.59
17	R1708551759	SANA PRAVEEN	4	21	25	17.5	17	17	7	41	12.3	29.8	35.06
18	R1708551760	SANJAY KUMAR	4	23	27	18.9	18	18	8	44	13.2	32.1	37.76
19	R1708551761	SRIKANT	20	23	43	30.1	18	18	8	44	13.2	43.3	50.94
20	R1708551762	SUNDAR LAL	42	23	65	45.5	18	18	8	44	13.2	58.7	69.06
21	R1708551763	UJALA	24	18	42	29.4	16	16	7	39	11.7	41.1	48.35
22	R1708551766	VIKAS PUNDIR	2	21	23	16.1	17	17	7	41	12.3	28.4	33.41
23	R1708551767	VISHAL KUMAR	11	25	36	25.2	19	19	9	47	14.1	39.3	46.24
24	R1708551769	VISHAL KUMAR	17	23	40	28	18	18	8	44	13.2	41.2	48.47



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Name of Programme : M.SC (BIOTECHNOLOGY)

Name of Course/ Subject : GENOMICS AND PROTEOMICS

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	R1708551741	AMRITA CHOPRA	72	20	92	64.4	17	17	7	41	12.3	27.7	32.59
2	R1708551742	ARBAZ	75	24	99	69.3	19	19	7	45	14.1	57.5	67.65
3	R1708551743	AVISHANT	74	22	96	67.2	16	18	8	42	13.2	50.3	59.18
4	R1708551744	HUMA RANA	74	22	96	67.2	18	17	8	43	13.2	28.6	33.65
5	R1708551745	HUMA RANA	74	21	95	66.5	17	17	7	41	12.3	54.3	63.88
6	R1708551746	IMRAN ALAM	75	24	99	69.3	19	19	9	47	14.1	55.4	65.18
7	R1708551747	KM ANAMIKA	76	21	97	67.9	17	17	7	41	12.3	53.6	63.06
8	R1708551748	KM RADHA	72	25	97	67.9	19	18	9	46	14.1	58.2	68.47
9	R1708551750	KM REETU	69	21	90	63	17	17	9	41	12.3	50.1	58.94



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10	R1708551751	KM RUPA RANI	63	21	84	58.8	17	17	7	41	12.3	48.7	57.29
11	R1708551752	KM SHIVANI DEVI	75	21	96	67.2	17	14	7	38	12.3	42.4	49.88
12	R1708551753	MITANSHI SINGH	74	22	96	67.2	18	17	8	43	13.2	41.2	48.47
13	R1708551754	NIKITA SINGH	69	21	90	63	17	17	7	41	12.3	34	40
14	R1708551755	NIKUNJ KUMAR	70	21	91	63.7	17	17	7	41	12.3	36.1	42.47
15	R1708551756	NIVYA	74	20	94	65.8	17	17	7	41	12.3	26.3	30.94
16	R1708551758	SAKSHI SAINI	71	23	94	65.8	18	18	8	44	13.2	32.8	38.59
17	R1708551759	SANA PRAVEEN	72	21	93	65.1	17	17	7	41	12.3	29.8	35.06
18	R1708551760	SANJAY KUMAR	73	23	96	67.2	18	18	8	44	13.2	32.1	37.76
19	R1708551761	SRIKANT	74	23	97	67.9	18	18	8	44	13.2	43.3	50.94
20	R1708551762	SUNDAR LAL	71	23	94	65.8	18	18	8	44	13.2	58.7	69.06
21	R1708551763	UJALA	79	18	97	67.9	16	16	7	39	11.7	41.1	48.35
22	R1708551766	VIKAS PUNDIR	2	21	23	16.1	17	17	7	41	12.3	28.4	33.41
23	R1708551767	VISHAL KUMAR	11	25	36	25.2	19	19	9	47	14.1	39.3	46.24
24	R1708551769	VISHAL KUMAR	17	23	40	28	18	18	8	44	13.2	41.2	48.47



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ASSESSMENT FOR PROGRAMME TARGET VALUE

Course Name	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
FUNDAMENTAL OF GENETICS	MSC (BT) 101	2.25	2.25	2.25	2.00	0.25	2.25	0.50
CYTOGENETICS AND MOLECULAR GENETICS	MSC (BT) 102	2.75	2.75	3	2.25	2.5	1.5	1.5
STAISTICAL METHODS AND BIOINFORMATICS IN BIOLOGY	MSC (BT) 103	1.8	1.4	1.6	2	2.2	0.4	1.4
TOOL AND TECHNIQUES IN BIOTECHNOLOGY	MSC (BT) 104	1.6	1.4	1.6	1.2	2.4	1.6	1.4
FUNDAMENTAL OF BIOCHEMISTRY	MSC (BT)201	1.75	1.5	1.25	0.5	2.5	2.25	1.75
PLANT GENETIC RESOURCES - CONSERVATION AND STAINABLE USE	MSC (BT) 202	1.5	1.5	1.25	0.5	2.5	2.25	2.25
BIOTECHNOLOGY IN CROP IMPROVEMENT	MSC (BT) 203	1.75	1.75	1.5	1.5	1.75	1.25	2
RECOMBINANT DNA TECHNOLOGY AND GENETIC ENGINEERING	MSC (BT) 204	1.5	2.25	2.25	2.5	1.75	1	1.75
MICROBIAL ,INDUSTRIAL AND ENVIRONMENTAL BIOTECHNOLOGY	MSC (BT) 301	1.75	1.75	1.25	1.75	1.75	0	1.75
CONCEPTS OF NANO TECHNOLOGY	MSC (BT) 302	2	2.75	2.75	2.25	1.75	0	0
ANIMAL BIOTECHNOLOGY AND IMMUNOLOGY	MSC (BT) 303	0	1.33	1	1.33	2	0.33	0
GENOMICS AND PROTEOMICS	MSC (BT) 304	2.25	1.75	1.75	1	1.5	1	1.75
Average Target Values		1.74	1.87	1.79	1.57	1.90	1.15	1.34



ASSESSMENT OF ATTAINMENT FOR PROGRAMME OUTCOME

Course Name	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
FUNDAMENTAL OF GENETICS	MSC (BT) 101	2.25	2.25	2.25	2.00	0.25	2.25	0.50
CYTOGENETICS AND MOLECULAR GENETICS	MSC (BT) 102	2.75	2.75	3	2.25	2.5	1.5	1.5
STATISTICAL METHODS AND BIOINFORMATICS IN BIOLOGY	MSC (BT) 103	1.8	1.4	1.6	2	2.2	0.4	1.4
TOOL AND TECHNIQUES IN BIOTECHNOLOGY	MSC (BT) 104	1.6	1.4	1.6	1.2	2.4	1.6	1.4
FUNDAMENTAL OF BIOCHEMISTRY	MSC (BT) 201	1.75	1.5	1.25	0.5	2.5	2.25	1.75
PLANT GENETIC RESOURCES - CONSERVATION AND SUSTAINABLE USE	MSC (BT) 202	1.5	1.5	1.25	0.5	2.5	2.25	2.25
BIOTECHNOLOGY IN CROP IMPROVEMENT	MSC (BT) 203	1.75	1.75	1.5	1.5	1.75	1.25	2
RECOMBINANT DNA TECHNOLOGY AND GENETIC ENGINEERING	MSC (BT) 204	1.5	2.25	2.25	2.5	1.75	1	1.75
MICROBIAL, INDUSTRIAL AND ENVIRONMENTAL BIOTECHNOLOGY	MSC (BT) 301	1.75	1.75	1.25	1.75	1.75	0	1.75
CONCEPTS OF NANO TECHNOLOGY	MSC (BT) 302	2	2.75	2.75	2.25	1.75	0	0
ANIMAL BIOTECHNOLOGY AND IMMUNOLOGY	MSC (BT) 303	0	1.33	1	1.33	2	0.33	0
GENOMICS AND PROTEOMICS	MSC (BT) 304	2.25	1.75	1.75	1	1.5	1	1.75
PO Attainment through Results		1.74	1.87	1.79	1.57	1.90	1.15	1.34

80 % of PO Attainment through results	1.74	1.87	1.79	1.57	1.9	1.15	1.34
Alumni Survey	2	2	3	2	3	2	2
10 % of Alumni Survey (B)	0.2	0.2	0.3	0.2	0.3	0.2	0.2
Employer/ Professional Survey	2	2	3	3	3	2	3
10 % of Employer Survey (C)	0.2	0.2	0.3	0.3	0.3	0.2	0.3
PO Attainment Value A+B+C	2.14	2.27	2.39	2.07	2.5	1.55	1.84
Target Value	1.74	1.87	1.79	1.57	1.90	1.15	1.34
Gap Value	0.4	0.4	0.6	0.5	0.6	0.4	0.5
Programme Attainment Status	yes	yes	yes	yes	yes	yes	yes



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Subject Name: FUNDAMENTAL OF GENETICS

Code: MSC- 101

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	2	3	2	2	0	2	0
COs - 2		3	1	2	2	1	2	0
COs - 3		2	2	2	2	0	2	0
COs - 4		2	3	3	2	0	3	2
Average		2.25	2.25	2.25	2.00	0.25	2.25	0.50
Average Attainment		2.25	2.25	2.25	2.00	0.25	2.25	0.50

Subject Name: CYTOGENETICS AND MOLECULAR GENETICS

Code: MSC- 102

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	3	3	3	2	3	1	2
COs - 2		2	3	3	2	2	1	1
COs - 3		3	2	3	2	2	2	2
COs - 4		3	3	3	3	3	2	1
Average		2.75	2.75	3	2.25	2.5	1.5	1.5
Average Attainment		2.75	2.75	3	2.25	2.5	1.5	1.5

Subject Name: STAISTICAL METHODS AND BIOINFORMATICS IN BIOLOGY

Code: MSC- 103

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	1	0	1	2	2	0	2
COs - 2		2	2	2	2	1	0	1
COs - 3		2	1	2	1	3	0	2
COs - 4		2	2	1	2	2	0	1
COs - 5		2	2	2	3	3	2	1
Average		1.8	1.4	1.6	2	2.2	0.4	1.4
Average Attainment		1.8	1.4	1.6	2	2.2	0.4	1.4

Subject Name: TOOL AND TECHNIQUES IN BIOTECHNOLOGY

Code: MSC- 104

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	1	1	1	1	2	2	1
COs - 2		2	2	2	1	3	2	2
COs - 3		2	1	2	2	2	1	1
COs - 4		2	1	1	1	2	2	2
COs - 5		1	2	2	1	3	1	1
Average		1.6	1.4	1.6	1.2	2.4	1.6	1.4
Average Attainment		1.6	1.4	1.6	1.2	2.4	1.6	1.4



Subject Name: FUNDAMENTAL OF BIOCHEMISTRY
Code: MSC- 201

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	1	1	1	0	3	2	2
COs - 2		2	1	1	0	2	2	2
COs - 3		2	2	1	1	2	3	2
COs - 4		2	2	2	1	3	2	1
Average		1.75	1.5	1.25	0.5	2.5	2.25	1.75
Average Attainment		1.75	1.5	1.25	0.5	2.5	2.25	1.75

Subject Name: PLANT GENETIC RESOURCES - CONSERVATION AND SUSTAINABLE USE
Code: MSC- 202

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	2	1	1	0	3	2	2
COs - 2		1	1	1	0	2	2	3
COs - 3		2	2	1	1	2	3	2
COs - 4		1	2	2	1	3	2	2
Average		1.5	1.5	1.25	0.5	2.5	2.25	2.25
Average Attainment		1.5	1.5	1.25	0.5	2.5	2.25	2.25

Subject Name: BIOTECHNOLOGY IN CROP IMPROVEMENT
Code: MSC- 203

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1		2	3	2	2	2	1	1
COs - 2		1	2	1	2	1	1	3
Cos 3	3	1	2	1	1	1	2	2
Cos-4		1	2	2	1	3	1	2
Average		1.75	1.75	1.5	1.5	1.75	1.25	2
Average Attainment		1.75	1.75	1.5	1.5	1.75	1.25	2

Subject Name: RECOMBINANT DNA TECHNOLOGY AND GENETIC ENGINEERING
Code: MSC- 204

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	1	2	2	2	1	2	2
COs - 2		2	3	2	2	2	1	2
COs - 3		1	2	3	3	2	1	2
COs - 4		2	2	2	3	2	0	1
Average		1.5	2.25	2.25	2.5	1.75	1	1.75
Average Attainment	Attainment	1.5	2.25	2.25	2.5	1.75	1	1.75



Subject Name: MICROBIAL ,INDUSTRIAL AND ENVIRONMENTAL BIOTECHNOLOGY

Code: MSC- 301

		POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	2	2	1	2	2	0	2
COs - 2		2	1	1	2	1	0	1
COs - 3		1	2	2	1	2	0	2
COs - 4		2	2	1	2	2	0	2
Average		1.75	1.75	1.25	1.75	1.75	0	1.75
Average Attainment	Attainment	1.75	1.75	1.25	1.75	1.75	0	1.75

Subject Name: CONCEPTS OF NANO TECHNOLOGY

Code: MSC- 302

		POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	2	2	3	2	1	0	0
COs - 2		2	2	3	3	2	0	0
COs - 3		3	3	2	2	2	0	0
COs - 4		1	2	3	2	2	0	0
Average		2	2.25	2.75	2.25	1.75	0	0
Average Attainment	Attainment	2	2.25	2.75	2.25	1.75	0	0

Subject Name: ANIMAL BIOTECHNOLOGY AND IMMUNOLOGY

Code: MSC- 303

		POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	0	1	1	1	2	1	0
COs - 2		0	1	1	2	2	0	0
COs - 3		0	2	1	1	2	0	0
Average		0.00	1.33	1.00	1.33	2.00	0.33	0.00
Average Attainment	Attainment	0.00	1.33	1.00	1.33	2.00	0.33	0.00

Subject Name: GENOMICS AND PROTEOMICS

Code: MSC- 304

		POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	2	2	2	1	1	1	2
COs - 2		3	2	1	1	2	1	2
COs - 3		2	2	2	1	1	1	1
COs - 4		2	1	2	1	2	1	2
Average		2.25	1.75	1.75	1	1.5	1	1.75
Average Attainment	Attainment	2.25	1.75	1.75	1	1.5	1	1.75



Methodology to Evaluate Course & Program Outcomes

Direct Assessment (External + Internal)	70%
Indirect Assessment (AT + Assignment + TA)	30%

Direct Assessment Benchmark		40%		
Level 1	60%	60% Students secure more than 40% marks	Points	
1				
Level 2	70%	70% Students secure more than 40% marks	Points	
2				
Level 3	80%	80% Students secure more than 40% marks	Points	
3				

Indirect Assessment Benchmark		40%		
Level 1	60%	60% Students secure more than 40% marks	Points	1
Level 2	70%	70% Students secure more than 40% marks	Points	
2				
Level 3	80%	80% Students secure more than 40% marks	Points	
3				

Program Outcomes (POs) [For Traditional Courses]

- PO1.Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- PO2.Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- PO3.Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- PO4.Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- PO5. Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
- PO6. Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
- PO7. Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

CO & PO Mapping

(Three Levels: 3-Strongly Related, 2-Moderately Related, 1-Slightly Related)



Signature

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Subject Name: Diversity –Instruments and microbial techniques
Code: 102

	Attainment	PO 1	PO 2	PO 3	PO 4	PO5	PO6	PO7
COs - 1	3	2	2	1	2	2	1	2
COs - 2		2	1	1	2	1	2	2
COs - 3		1	2	2	1	2	1	1
COs - 4		2	2	1	2	2	2	2
Average		1.75	1.75	1.25	1.75	1.75	1.5	1.75
Average Attainment		1.75	1.75	1.25	1.75	1.75	1.5	1.75

Accessing Total Attainment for given Subject:

Direct Assessment (70%)

University Exams & Internal Exams

(70%): 70% of (1 or 2 or 3) eg. 70% of 1 is 0.7

Indirect Assessment (30%)

Attendance + Assignment/Presentation+ TA

(30%): 30% of (1 or 2 or 3) eg. 30% of 3 is 0.9

Therefore Total Attainment for Subject Name (Sub code :) is $(0.7+0.9) = 1.60$

Accessing PO attainment through CO's:

Formula for Computation:

Total Attainment for Subject X AVG of POi

3

eg: $3 \times 1.75/3 = 1.75$



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Name of Programme : M.SC (MICRO)

Name of Course/ Subject INSTRUMENTS AND MICROBIAL TECHNIQUES

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	19085525401	AALITA FATIMA	79	20	99	69.3	14	17	7	38	11.4	80.7	94.94118
2	19085525402	PRATAP SINGH RANA	74	24	98	68.6	15	19	9	43	12.9	81.5	95.88235
3	19085525403	ANIT KUMAR	74	22	96	67.2	18	18	8	44	13.2	80.4	94.58824
4	19085525404	ARUN GUJRAL	72	22	94	65.8	19	18	8	45	12	77.8	91.52941
5	19085525405	ASHLESH KUMAR	76	21	97	67.9	16	17	7	40	12	79.9	94
6	19085525406	FADAK ZEHRRA	74	24	98	68.6	17	19	9	45	13.5	82.1	96.58824
7	19085525407	FARHA	75	21	96	67.2	18	19	7	42	12.6	79.8	93.88235
8	19085525408	JAHANGIR ALAM	69	25	94	65.8	15	19	7	43	12.9	78.7	92.58824



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9	19085525409	KM AANCHAL	75	21	96	67.2	14	17	7	38	11.4	78.6	92.47059
10	19085525410	KM KOSHAR JAHAN	78	21	99	69.3	19	17	7	43	12.9	82.2	96.70588
11	19085525411	KM PREETI NAMDEV	72	21	93	65.1	17	17	7	41	12.3	77.4	91.05882
12	19085525412	KM Saiyyada Razia	75	22	97	67.9	18	18	8	44	13.2	81.1	95.41176
13	19085525413	KM SHIVANI PAL	72	21	93	65.1	15	17	7	39	11.7	76.8	90.35294
14	19085525414	KM SHIVANI TYAGI	78	21	99	69.3	18	17	7	42	12.6	81.9	96.35294
15	19085525415	MANU TOMAR	77	20	97	67.9	17	17	7	41	12.3	80.2	94.35294
16	19085525416	MAYANK KUMAR	73	23	96	67.2	15	18	8	41	12.3	79.5	93.52941
17	19085525417	MOHD. AVVALEEN	69	21	90	63	18	17	7	42	12.6	75.6	88.94118
18	19085525418	MOHD. SAIF	72	23	95	66.5	18	18	8	44	13.2	79.7	93.76471
19	19085525419	NISHANT KUMAR TYAGI	73	23	96	67.2	14	18	8	40	12	79.2	93.17647
20	19085525420	PRIYA TYAGI	75	23	98	68.6	17	18	8	43	12.9	81.5	95.88235
21	19085525421	RASHI PATLAN	68	18	86	60.2	14	16	7	37	11.1	71.3	83.88235
22	19085525422	VISHWAAS SHARMA	77	21	98	68.6	17	17	7	41	12.3	80.9	95.17647
23	19085525423	ZEHRA HUSAINI	69	25	94	65.8	17			45	13.5	79.3	93.29412



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Name of Programme : M.SC (MICRO)

Name of Course/ Subject :INDUSTRIAL MICROBIOLOGY

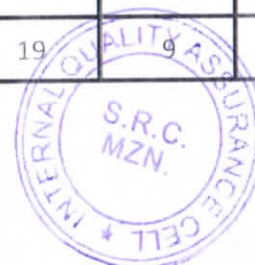
Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	(A+B)=C	D	Assignment	Attendance	Behaviour / Attitude	50	= (F)	85	G*100/85
					100	70					15		
1	19085525401	AALIYA FATIMA	79	20	99	69.3	14	17	7	38	11.4	80.7	94.94118
2	19085525402	PRATAP SINGH RANA	74	24	98	68.6	15	19	9	43	12.9	81.5	95.88235
3	19085525403	ANIT KUMAR	74	22	96	67.2	18	18	8	44	13.2	80.4	94.58824
4	19085525404	ARUN GUJRAL	72	22	94	65.8	19	18	8	45	12	77.8	91.52941
5	19085525405	ASHEESH KUMAR	76	21	97	67.9	16	17	7	40	12	79.9	94
6	19085525406	FADAK ZEHRRA	74	24	98	68.6	17	19	9	45	13.5	82.1	96.58824
7	19085525407	FARHA	75	21	96	67.2	18	17	7	42	12.6	79.8	93.88235
8	19085525408	JAHANGEE R ALAM	69	25	94	65.8	15	19	9	43	12.9	78.7	92.58824



A handwritten signature in blue ink, possibly reading "S.R.C. MZN." or similar.

9	19085525409	KM AANCHAL	75	21	96	67.2	14	17	7	38	11.4	78.6	92.47059
10	19085525410	KM KOSHAR JAHAN	78	21	99	69.3	19	17	7	43	12.9	82.2	96.70588
11	19085525411	KM PREETI NAMDEV	72	21	93	65.1	17	17	7	41	12.3	77.4	91.05882
12	19085525412	KM Saiyyada Razia	75	22	97	67.9	18	18	8	44	13.2	81.1	95.41176
13	19085525413	KM SHIVANI PAL	72	21	93	65.1	15	17	7	39	11.7	76.8	90.35294
14	19085525414	KM SHIVANI TYAGI	78	21	99	69.3	18	17	7	42	12.6	81.9	96.35294
15	19085525415	MANU TOMAR	77	20	97	67.9	17	17	7	41	12.3	80.2	94.35294
16	19085525416	MAYANK KUMAR	73	23	96	67.2	15	18	8	41	12.3	79.5	93.52941
17	19085525417	MOHD. AVVALEEN	69	21	90	63	18	17	7	42	12.6	75.6	88.94118
18	19085525418	MOHD. SAIF	72	23	95	66.5	18	18	8	44	13.2	79.7	93.76471
19	19085525419	NISHANT KUMAR TYAGI	73	23	96	67.2	14	18	8	40	12	79.2	93.17647
20	19085525420	PRIYA TYAGI	75	23	98	68.6	17	18	8	43	12.9	81.5	95.88235
21	19085525421	RASHI PATLAN	68	18	86	60.2	14	16	7	37	11.1	71.3	83.88235
22	19085525422	VISHWAAS SHARMA	77	21	98	68.6	17	17	7	41	12.3	80.9	95.17647
23	19085525423	ZEHRRA HUSAINI	69	25	94	65.8	17	19	9	45	13.5	79.3	93.29412



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Name of Programme : M.SC (MICRO)

Name of Course/ Subject :FOOD AND DAIRY MICROBIOLOGY

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	19085525401	AALIYA FATIMA	79	20	99	69.3	14	17	7	38	11.4	80.7	94.94118
2	19085525402	PRATAP SINGH RANA	74	24	98	68.6	15	19	9	43	12.9	81.5	95.88235
3	19085525403	ANIT KUMAR	74	22	96	67.2	18	18	8	44	13.2	80.4	94.58824
4	19085525404	ARUN GUJRAL	72	22	94	65.8	19	18	8	45	12	77.8	91.52941
5	19085525405	ASHFEESH KUMAR	76	21	97	67.9	16	17	7	40	12	79.9	94
6	19085525406	FADAK ZEHRRA	74	24	98	68.6	17	19	9	45	13.5	82.1	96.58824
7	19085525407	FARHA	75	21	96	67.2	18	17	7	42	12.6	79.8	93.88235
8	19085525408	JAHANGEE R ALAM	69	25	94	65.8	15	19		43	12.9	78.7	92.58824



9	19085525409	KM AANCHAL	75	21	96	67.2	14	17	7	38	11.4	78.6	92.47059
10	19085525410	KM KOSHAR JAHAN	78	21	99	69.3	19	17	7	43	12.9	82.2	96.70588
11	19085525411	KM PREETI NAMDEV	72	21	93	65.1	17	17	7	41	12.3	77.4	91.05882
12	19085525412	KM Saiyyada Razia	75	22	97	67.9	18	18	8	44	13.2	81.1	95.41176
13	19085525413	KM SHIVANI PAL	72	21	93	65.1	15	17	7	39	11.7	76.8	90.35294
14	19085525414	KM SHIVANI TYAGI	78	21	99	69.3	18	17	7	42	12.6	81.9	96.35294
15	19085525415	MANU TOMAR	77	20	97	67.9	17	17	7	41	12.3	80.2	94.35294
16	19085525416	MAYANK KUMAR	73	23	96	67.2	15	18	8	41	12.3	79.5	93.52941
17	19085525417	MOHD. AVVALEEN	69	21	90	63	18	17	7	42	12.6	75.6	88.94118
18	19085525418	MOHD. SAIF	72	23	95	66.5	18	18	8	44	13.2	79.7	93.76471
19	19085525419	NISHANT KUMAR TYAGI	73	23	96	67.2	14	18	8	40	12	79.2	93.17647
20	19085525420	PRIYA TYAGI	75	23	98	68.6	17	18	8	43	12.9	81.5	95.88235
21	19085525421	RASHI PATLAN	68	18	86	60.2	14	16	7	37	11.1	71.3	83.88235
22	19085525422	VISHWAAS SHARMA	77	21	98	68.6	17	17	7	41	12.3	80.9	95.17647
23	19085525423	ZEHRA HUSAINI	69	25	94	65.8	17	19	9	45	13.5	79.3	93.29412



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Name of Programme : M.SC (MICRO)

Name of Course/ Subject :MOLECULAR AND CLINICAL MICROBIOLOGY

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	19085525401	AALIYA FATIMA	79	20	99	69.3	14	17	7	38	11.4	80.7	94.94118
2	19085525402	PRATAP SINGH RANA	74	24	98	68.6	15	19	9	43	12.9	81.5	95.88235
3	19085525403	ANIT KUMAR	74	22	96	67.2	18	18	8	44	13.2	80.4	94.58824
4	19085525404	ARUN GUJRAL	72	22	94	65.8	19	18	8	45	12	77.8	91.52941
5	19085525405	ASHEESH KUMAR	76	21	97	67.9	16	17	7	40	12	79.9	94
6	19085525406	FADAK ZEHRRA	74	24	98	68.6	17	19	9	45	13.5	82.1	96.58824
7	19085525407	FARHA	75	21	96	67.2	18	17	7	42	12.6	79.8	93.88235
8	19085525408	JAHANGEE R ALAM	69	25	94	65.8	15	19	9	43	12.9	78.7	92.58824



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9	19085525409	KM AANCHAL	75	21	96	67.2	14	17	7	38	11.4	78.5	92.47059
10	19085525410	KM KOSHAR JAHAN	78	21	99	69.3	19	17	7	43	12.9	82.2	96.70588
11	19085525411	KM PREETI NAMDEV	72	21	93	65.1	17	17	7	41	12.3	77.4	91.05882
12	19085525412	KM Saiyyada Razia	75	22	97	67.9	18	18	8	44	13.2	81.1	95.41176
13	19085525413	KM SHIVANI PAL	72	21	93	65.1	15	17	7	39	11.7	76.8	90.35294
14	19085525414	KM SHIVANI TYAGI	78	21	99	69.3	18	17	7	42	12.6	81.9	96.35294
15	19085525415	MANU TOMAR	77	20	97	67.9	17	17	7	41	12.3	80.2	94.35294
16	19085525416	MAYANK KUMAR	73	23	96	67.2	15	18	8	41	12.3	79.5	93.52941
17	19085525417	MOHD. AVVALEEN	69	21	90	63	18	17	7	42	12.6	75.6	88.94118
18	19085525418	MOHD. SAIF	72	23	95	66.5	18	18	8	44	13.2	79.7	93.76471
19	19085525419	NISHANT KUMAR TYAGI	73	23	96	67.2	14	18	8	40	12	79.2	93.17647
20	19085525420	PRIYA TYAGI	75	23	98	68.6	17	18	8	43	12.9	81.5	95.88235
21	19085525421	RASHI PATLAN	68	18	86	60.2	14	16	7	37	11.1	71.3	83.88235
22	19085525422	VISHWAAS SHARMA	77	21	98	68.6	17	17	7	41	12.3	80.9	95.17647
23	19085525423	ZEHRA HUSAINI	69	25	94	65.8	17	19	9	45	13.5	79.3	93.29412



Name of Programme : M.SC (MICRO)

Name of Course/ Subject : MEDICAL MICROBIOLOGY

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment (A+B)=C	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	D 70	Assignment 20	Attendance 20	Behaviour / Attitude 10	50	= (F) 15	85	G*100/85
1	19085525401	AALIYA FATIMA	79	20	99	69.3	14	17	7	38	11.4	80.7	94.94118
2	19085525402	PRATAP SINGH RANA	74	24	98	68.6	15	19	9	43	12.9	81.5	95.88235
3	19085525403	ANIT KUMAR	74	22	96	67.2	18	18	8	44	13.2	80.4	94.58824
4	19085525404	ARUN GUJRAL	72	22	94	65.8	19	18	8	45	12	77.8	91.52941
5	19085525405	ASHEESH KUMAR	76	21	97	67.9	16	17	7	40	12	79.9	94
6	19085525406	FADAK ZEHRRA	74	24	98	68.6	17	19	9	45	13.5	82.1	96.58824
7	19085525407	FARHA	75	21	96	67.2	18	17	7	42	12.6	79.8	93.88235
8	19085525408	JAHANGEE R ALAM	69	25	94	65.8	15	19	9	43	12.9	78.7	92.58824



9	19085525409	KM AANCHAL	75	21	96	67.2	14	17	7	38	11.4	78.6	92.47059
10	19085525410	KM KOSHAR JAHAN	78	21	99	69.3	19	17	7	43	12.9	82.2	96.70588
11	19085525411	KM PREETI NAMDEV	72	21	93	65.1	17	17	7	41	12.3	77.4	91.05882
12	19085525412	KM Saiyyada Razia	75	22	97	67.9	18	18	8	44	13.2	81.1	95.41176
13	19085525413	KM SHIVANI PAL	72	21	93	65.1	15	17	7	39	11.7	76.8	90.35294
14	19085525414	KM SHIVANI TYAGI	78	21	99	69.3	18	17	7	42	12.6	81.9	96.35294
15	19085525415	MANU TOMAR	77	20	97	67.9	17	17	7	41	12.3	80.2	94.35294
16	19085525416	MAYANK KUMAR	73	23	96	67.2	15	18	8	41	12.3	79.5	93.52941
17	19085525417	MOHD. AVVALEEN	69	21	90	63	18	17	7	42	12.6	75.6	88.94118
18	19085525418	MOHD. SAIF	72	23	95	66.5	18	18	8	44	13.2	79.7	93.76471
19	19085525419	NISHANT KUMAR TYAGI	73	23	96	67.2	14	18	8	40	12	79.2	93.17647
20	19085525420	PRIYA TYAGI	75	23	98	68.6	17	18	8	43	12.9	81.5	95.88235
21	19085525421	RASHI PATLAN	68	18	86	60.2	14	16	7	37	11.1	71.3	83.88235
22	19085525422	VISHWAAS SHARMA	77	21	98	68.6	17	17	7	41	12.3	80.9	95.17647
23	19085525423	ZEHRA HUSAINI	69	25	94	65.8	17	19	9	45	13.5	79.3	93.29412



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Name of Programme : M.SC (MICRO)

Name of Course/ Subject : MICROBIAL ENVIRONMENT TECHNOLOGY

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment	Attendance	Behaviour / Attitude		15		
1	19085525401	AALIYA FATIMA	79	20	99	69.3	14	17	7	38	11.4	80.7	94.94118
2	19085525402	PRATAP SINGH RANA	74	24	98	68.6	15	19	9	43	12.9	81.5	95.88235
3	19085525403	ANIT KUMAR	74	22	96	67.2	18	18	8	44	13.2	80.4	94.58824
4	19085525404	ARON GUJRAL	72	22	94	65.8	19	18	8	45	12	77.8	91.52941
5	19085525405	ASHEESH KUMAR	76	21	97	67.9	16	17	7	40	12	79.9	94
6	19085525406	FADAK ZEHRRA	74	24	98	68.6	17	19	9	45	13.5	82.1	96.58824
7	19085525407	FARHA	75	21	96	67.2	18	17		42	12.6	79.8	93.88235
8	19085525408	JAHANGEE R ALAM	69	25	94	65.8	15	19	9	43	12.9	78.7	92.58824



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9	19085525409	KM AANCHAL	75	21	96	67.2	14	17	7	38	11.4	78.6	92.47059
10	19085525410	KM KOSHAH JAHAN	78	21	99	69.3	19	17	7	43	12.9	82.2	96.70588
11	19085525411	KM PREETI NAMDEV	72	21	93	65.1	17	17	7	41	12.3	77.4	91.05882
12	19085525412	KM Saiyyada Razia	75	22	97	67.9	18	18	8	44	13.2	81.1	95.41176
13	19085525413	KM SHIVANI PAL	72	21	93	65.1	15	17	7	39	11.7	76.8	90.35294
14	19085525414	KM SHIVANI TYAGI	78	21	99	69.3	18	17	7	42	12.6	81.9	96.35294
15	19085525415	MANU TOMAR	77	20	97	67.9	17	17	7	41	12.3	80.2	94.35294
16	19085525416	MATANK KUMAR	73	23	96	67.2	15	18	8	41	12.3	79.5	93.52941
17	19085525417	MOHD. AVVALEEN	69	21	90	63	18	17	7	42	12.6	75.6	88.94118
18	19085525418	MOHD. SAIF	72	23	95	66.5	18	18	8	44	13.2	79.7	93.76471
19	19085525419	NISHANT KUMAR TYAGI	73	23	96	67.2	14	18	8	40	12	79.2	93.17647
20	19085525420	PRIYA TYAGI	75	23	98	68.6	17	18	8	43	12.9	81.5	95.88235
21	19085525421	RASHI PATLAN	68	18	86	60.2	14	16	7	37	11.1	71.3	83.88235
22	19085525422	VISHWAAS SHARMA	77	21	98	68.6	17	17	7	41	12.3	80.9	95.17647
23	19085525423	ZEHR HUSAINI	69	25	94	65.8	17	19	7	45	13.5	79.3	93.29412



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Name of Programme : M.SC (MICRO)

Name of Course/ Subject :MICROBIAL PHYSIOLOGY AND BIOCHEMISTRY

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	19085525401	AALIYA FATIMA	48	20	68	47.6	18	17	7	42	12.6	60.2	70.823529
2	19085525402	PRATAP SINGH RANA	44	24	68	47.6	14	19	9	42	12.6	60.2	70.823529
3	19085525403	ANIT KUMAR	43	22	65	45.5	15	18	8	41	12.3	57.8	68
4	19085525404	ARUN GUJRAL	38	22	60	42	16	18	7	41	12.3	54.3	63.882353
5	19085525405	ASHEESH KUMAR	43	21	64	44.8	17	17	9	43	12.9	57.7	67.882353
6	19085525406	FADAK ZEHRRA	49	24	73	51.1	18	19	8	45	13.5	64.6	76
7	19085525407	FARHA	48	21	69	48.3	15	17	8	40	12	60.3	70.941176
8	19085525408	JAHANGEE R ALAM	42	25	67	46.9	18	19	9	46	13.8	60.7	71.411765



9	19085525409	KM AANCHAL	42	21	63	44.1	16	17	8	41	12.3	56.4	66.352941
10	19085525410	KM KOSHAR JAHAN	46	21	67	46.9	19	17	8	44	13.2	60.1	70.705882
11	19085525411	KM PREETI NAMDEV	48	21	69	48.3	17	17	7	41	12.3	60.6	71.294118
12	19085525412	KM Saiyyada Razia	48	22	70	49	18	18	8	44	13.2	62.2	73.176471
13	19085525413	KM SHIVANI PAL	47	21	68	47.6	15	17	7	39	11.7	59.3	69.764706
14	19085525414	KM SHIVANI TYAGI	46	21	67	46.9	18	17	7	42	12.6	59.5	70
15	19085525415	MANU TOMAR	46	20	66	46.2	17	17	7	41	12.3	58.5	68.823529
16	19085525416	MAYANK KUMAR	39	23	62	43.4	15	18	8	41	12.3	55.7	65.529412
17	19085525417	MOHD. AVVALEEN	43	21	64	44.8	18	17	7	42	12.6	57.4	67.529412
18	19085525418	MOHD. SAIF	45	23	68	47.6	18	18	8	44	13.2	60.8	71.529412
19	19085525419	NISHANT KUMAR TYAGI	38	23	61	42.7	14	18	8	40	12	54.7	64.352941
20	19085525420	PRIYA TYAGI	49	23	72	50.4	17	18	8	43	12.9	63.3	74.470588
21	19085525421	RASHI PATLAN	47	18	65	45.5	14	16	7	37	11.1	56.6	66.588235
22	19085525422	VISHWAAS SHARMA	43	21	64	44.8	17	17	7	41	12.3	57.1	67.176471
23	19085525423	ZEHKA HUSAINI	49	25	74	51.8	17	19	9	45	13.5	65.3	76.823529



Name of Programme : M.SC (MICRO)

Name of Course/ Subject :BIOSTATISTICS,COMPUTER APPLICATION AND

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment (A+B)=C	70 % of C D	Indirect Assessment			Total of Indirect Assessment (E) 50	30 % of E = (F)	Total Assessment (D+F)=G 85	Percentage of Marks out of 85 G*100/85
			External Marks (A)	Internal Marks (B)	100	70	Assignment	Attendance	Behaviour / Attitude		15		
				Class Test/ Unit Test Sessional Test			20	20	10				
1	19085525401	AALIYA FATIMA	79	20	99	69.3	14	17	7	38	11.4	80.7	94.94118
2	19085525402	PRATAP SINGH RANA	74	24	98	68.6	15	19	9	43	12.9	81.5	95.88235
3	19085525403	ANIT KUMAR	74	22	96	67.2	18	18	8	44	13.2	80.4	94.58824
4	19085525404	ARUN GUJRAL	72	22	94	65.8	19	18	8	45	12	77.8	91.52941
5	19085525405	ASHEESH KUMAR	76	21	97	67.9	16	17	7	40	12	79.9	94
6	19085525406	FADAK ZEHRRA	74	24	98	68.6	17	19	9	45	13.5	82.1	96.58824
7	19085525407	FARHA	75	21	96	67.2	18	17	9	42	12.6	79.8	93.88235
8	19085525408	JAFIANGEE R ALAM	69	25	94	65.8	15	19	9	42	12.9	78.7	92.58824



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9	19085525409	KM AANCHAL	75	21	96	67.2	14	17	7	38	11.4	78.6	92.47059
10	19085525410	KM KOSHAR JAHAN	78	21	99	69.3	19	17	7	43	12.9	82.2	96.70588
11	19085525411	KM PREETI NAMDEV	72	21	93	65.1	17	17	7	41	12.3	77.4	91.05882
12	19085525412	KM Saiyyada Razia	75	22	97	67.9	18	18	8	44	13.2	81.1	95.41176
13	19085525413	KM SHIVANI PAL	72	21	93	65.1	15	17	7	39	11.7	76.8	90.35294
14	19085525414	KM SHIVANI TYAGI	78	21	99	69.3	18	17	7	42	12.6	81.9	96.35294
15	19085525415	MANU TOMAR	77	20	97	67.9	17	17	7	41	12.3	80.2	94.35294
16	19085525416	MAYANK KUMAR	73	23	96	67.2	15	18	8	41	12.3	79.5	93.52941
17	19085525417	MOHD. AVVALEEN	69	21	90	63	18	17	7	42	12.6	75.6	88.94118
18	19085525418	MOHD. SAIF	72	23	95	66.5	18	18	8	44	13.2	79.7	93.76471
19	19085525419	NISHANT KUMAR TYAGI	73	23	96	67.2	14	18	8	40	12	79.2	93.17647
20	19085525420	PRIYA TYAGI	75	23	98	68.6	17	18	8	43	12.9	81.5	95.88235
21	19085525421	RASHI PATLAN	68	18	86	60.2	14	16	7	37	11.1	71.3	83.88235
22	19085525422	VISHWAAS SHARMA	77	21	98	68.6	17	17	7	41	12.3	80.9	95.17647
23	19085525423	ZEHR HUSAINI	69	25	94	65.8	17	19	9	45	13.5	79.3	93.29412



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Name of Programme : M.SC (MICRO)

Name of Course/ Subject : MICROBIAL DIVERSITY -EUKARYOTES

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	19085525401	AALIYA FATIMA	47	20	67	46.9	17	17	7	41	12.3	59.2	69.64706
2	19085525402	PRATAP SINGH RANA	41	24	65	45.5	16	19	9	44	13.2	58.7	69.05882
3	19085525403	ANIT KUMAR	43	22	65	45.5	18	18	8	44	13.2	58.7	69.05882
4	19085525404	ARUN GUJRAL	40	22	62	43.4	19	18	8	45	13.5	56.9	66.94118
5	19085525405	ASHEESH KUMAR	42	21	63	44.1	16	17	7	40	12	56.1	66
6	19085525406	FADAK ZEHRA	48	24	72	50.4	18	19	9	46	13.8	64.2	75.52941
7	19085525407	FARHA	48	21	69	48.3	18	17	7	42	12.6	60.9	71.64706
8	19085525408	JAHANGEE R ALAM	42	25	67	46.9	15	19	7	43	12.9	59.8	70.35294



Signature

9	19085525409	KM AANCHAL	40	21	61	42.7	17	17	7	41	12.3	55	64.70588
10	19085525410	KM KOSHAR JAHAN	45	21	66	46.2	19	17	7	43	12.9	59.1	69.52941
11	19085525411	KM PREETI NAMDEV	46	21	67	46.9	17	17	7	41	12.3	59.2	69.64706
12	19085525412	KM Saiyyada Razia	47	22	69	48.3	18	18	8	44	13.2	61.5	72.35294
13	19085525413	KM SHIVANI PAL	47	21	68	47.6	18	17	7	42	12.6	60.2	70.82353
14	19085525414	KM SHIVANI TYAGI	46	21	67	46.9	18	17	7	42	12.6	59.5	70
15	19085525415	MANU TOMAR	46	20	66	46.2	17	17	7	41	12.3	58.5	68.82353
16	19085525416	MAYANK KUMAR	39	23	62	43.4	15	18	8	41	12.3	55.7	65.52941
17	19085525417	MOHD. AVVALEEN	43	21	64	44.8	18	17	7	42	12.6	57.4	67.52941
18	19085525418	MOHD. SAIF	43	23	66	46.2	18	18	8	44	13.2	59.4	69.88235
19	19085525419	NISHANT KUMAR TYAGI	37	23	60	42	14	18	8	40	12	54	63.52941
20	19085525420	PRIYA TYAGI	48	23	71	49.7	17	18	8	43	12.9	62.6	73.64706
21	19085525421	RASHI PATLAN	47	18	65	45.5	14	16	7	37	11.1	56.6	66.58824
22	19085525422	VISHWAAS SHARMA	42	21	63	44.1	17	17	7	41	12.3	56.4	66.35294
23	19085525423	ZEHRA HUSAINI	48	25	73	51.1	17	19		45	13.5	64.6	76



Sheet

Name of Programme : M.SC (MICRO)

Name of Course/ Subject INSTRUMENTS AND MICROBIAL TECHNIQUES

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
					(A+B)=C	D				50	= (F)	85	G*100/85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	70	Assignment 20	Attendance 20	Behaviour / Attitude 10		15		
1	19085525401	AALIYA FATIMA	47	20	67	46.9	14	17	7	38	11.4	58.3	68.58824
2	19085525402	PRATAP SINGH RANA	42	24	66	46.2	15	19	9	43	12.9	59.1	69.52941
3	19085525403	ANITI KUMAR	42	22	64	44.8	18	18	8	44	13.2	58	68.23529
4	19085525404	ARUN GUJRAL	39	22	61	42.7	19	18	8	45	13.5	56.2	66.11765
5	19085525405	ASHEESH KUMAR	42	21	63	44.1	16	17	7	40	12	56.1	66
6	19085525406	FADAK ZEHRRA	48	24	72	50.4	17	19	9	45	13.5	63.9	75.17647
7	19085525407	FARHA	48	21	69	48.3	17	17	7	42	12.6	60.9	71.64706
8	19085525408	JAHANGEE R ALAM	41	25	66	46.2	15	19	9	43	12.9	59.1	69.52941



Signature

9	19085525409	KM AANCHAL	41	21	62	43.4	14	17	7	38	11.4	54.8	64.47059
10	19085525410	KM KOSHAR JAHAN	45	21	66	46.2	19	17	7	43	12.9	59.1	69.52941
11	19085525411	KM PREETI NAMDEV	47	21	68	47.6	17	17	7	41	12.3	59.9	70.47059
12	19085525412	KM Saiyyada Razia	47	22	69	48.3	18	18	8	44	13.2	61.5	72.35294
13	19085525413	KM SHIVANI PAL	48	21	69	48.3	15	17	7	39	11.7	60	70.58824
14	19085525414	KM SHIVANI TYAGI	45	21	66	46.2	18	17	7	42	12.6	58.8	69.17647
15	19085525415	MANU TOMAR	45	20	65	45.5	17	17	7	41	12.3	57.8	68
16	19085525416	MAYANK KUMAR	38	23	61	42.7	15	18	8	41	12.3	55	64.70588
17	19085525417	MOHD. AVVALEEN	44	21	65	45.5	18	17	7	42	12.6	58.1	68.35294
18	19085525418	MOHD. SAIF	44	23	67	46.9	18	18	8	44	13.2	60.1	70.70588
19	19085525419	NISHANT KUMAR TYAGI	39	23	62	43.4	14	18	8	40	12	55.4	65.17647
20	19085525420	PRIYA TYAGI	48	23	71	49.7	17	18	8	43	12.9	62.6	73.64706
21	19085525421	RASHI PATLAN	48	18	66	46.2	14	16	7	37	11.1	57.3	67.41176
22	19085525422	VISHWAAS SHARMA	42	21	63	44.1	17	17	7	41	12.3	56.4	66.35294
23	19085525423	ZEHRA HUSAINI	48	25	73	51.1	17	19	9	45	13.5	64.6	76



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Name of Programme : M.SC (MICRO)

Name of Course/ Subject INSTRUMENTS AND MICROBIAL TECHNIQUES

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment (A+B)=C	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	D	Assignment	Attendance	Behaviour / Attitude	50	= (F)	85	G*100/85
1	19085525401	AALIYA FATIMA	79	20	99	69.3	14	17	7	38	11.4	80.7	94.94118
2	19085525402	ADARSH PRATAP SINGH RANA	74	24	98	68.6	15	19	9	43	12.9	81.5	95.88235
3	19085525403	ANITI KUMAR	74	22	96	67.2	18	18	8	44	13.2	80.4	94.58824
4	19085525404	ARON GUJRAL	72	22	94	65.8	19	18	8	45	12	77.8	91.52941
5	19085525405	ASHEESH KUMAR	76	21	97	67.9	16	17	7	40	12	79.9	94
6	19085525406	FADAK ZEHRRA	74	24	98	68.6	17	19	9	45	13.5	82.1	96.58824
7	19085525407	FARHA	75	21	96	67.2	18	17	7	42	12.6	79.8	93.88235
8	19085525408	JAHANGEE R ALAM	69	25	94	65.8	15	19	9	43	12.9	78.7	92.58824



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9	19085525409	KM AANCHAL	75	21	96	67.2	14	17	7	38	11.4	78.6	92.47059
10	19085525410	KM KOSHAR JAHAN	78	21	99	69.3	19	17	7	43	12.9	82.2	96.70588
11	19085525411	KM PREETI NAMDEV	72	21	93	65.1	17	17	7	41	12.3	77.4	91.05882
12	19085525412	KM Saiyyada Razia	75	22	97	67.9	18	18	8	44	13.2	81.1	95.41176
13	19085525413	KM SHIVANI PAL	72	21	93	65.1	15	17	7	39	11.7	76.8	90.35294
14	19085525414	KM SHIVANI TYAGI	78	21	99	69.3	18	17	7	42	12.6	81.9	96.35294
15	19085525415	MANU TOMAR	77	20	97	67.9	17	17	7	41	12.3	80.2	94.35294
16	19085525416	MAYANK KUMAR	73	23	96	67.2	15	18	8	41	12.3	79.5	93.52941
17	19085525417	MOHD. AVVALEEN	69	21	90	63	18	17	7	42	12.6	75.6	88.94118
18	19085525418	MOHD. SAIF	72	23	95	66.5	18	18	8	44	13.2	79.7	93.76471
19	19085525419	NISHANT KUMAR TYAGI	73	23	96	67.2	14	18	8	40	12	79.2	93.17647
20	19085525420	PRIYA TYAGI	75	23	98	68.6	17	18	8	43	12.9	81.5	95.88235
21	19085525421	RASHI PATLAN	68	18	86	60.2	14	16	7	37	11.1	71.3	83.88235
22	19085525422	VISHWAAS SHARMA	77	21	98	68.6	17	17	7	41	12.3	80.9	95.17647
23	19085525423	ZERRA HUSAINI	69	25	94	65.8	17	19	9	45	13.5	79.3	93.29412



Signature

Name of Programme : M.SC (MICRO)

Name of Course/ Subject MICROBIAL DIVERSITY -PROKARYOTES AND VIRUSES

Assessment of Students

S.NO	Roll Number	Student Name	Direct Assessment		Total Direct Assessment (A+B)=C	70 % of C	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E	Total Assessment (D+F)=G	Percentage of Marks out of 85
			External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	100	D	Assignment	Attendance	Behaviour / Attitude	50	= (F)	85	G*100/85
						70	20	20	10		15		
1	19085525401	AALIYA FATIMA	48	20	68	47.6	18	17	7	42	12.6	60.2	70.82353
2	19085525402	PRATAP SINGH RANA	44	24	68	47.6	14	19	9	42	12.6	60.2	70.82353
3	19085525403	ANIT KUMAR	43	22	65	45.5	15	18	8	41	12.3	57.8	68
4	19085525404	ARUN GUJRAL	38	22	60	42	16	18	7	41	12.3	54.3	63.88235
5	19085525405	ASHEESH KUMAR	43	21	64	44.8	17	17	9	43	12.9	57.7	67.88235
6	19085525406	FADAK ZEHRRA	49	24	73	51.1	18	19	8	45	13.5	64.6	76
7	19085525407	FARHA	48	21	69	48.3	15	17	8	40	12	60.3	70.94118
8	19085525408	JAHANGEE R ALAM	42	25	67	46.9	18	19	9	46	13.8	60.7	71.41176

9	19085525409	KM AANCHAL	42	21	63	44.1	16	17	8	41	12.3	56.4	66.35294
10	19085525410	KM KOSHAR JAHAN	46	21	67	46.9	19	17	8	44	13.2	60.1	70.70588
11	19085525411	KM PREETI NAMDEV	48	21	69	48.3	17	17	7	41	12.3	60.6	71.29412
12	19085525412	KM Saiyyada Razia	48	22	70	49	18	18	8	44	13.2	62.2	73.17647
13	19085525413	KM SHIVANI PAL	47	21	68	47.6	15	17	7	39	11.7	59.3	69.76471
14	19085525414	KM SHIVANI TYAGI	46	21	67	46.9	18	17	7	42	12.6	59.5	70
15	19085525415	MANU TOMAR	46	20	66	46.2	17	17	7	41	12.3	58.5	68.82353
16	19085525416	MAYANK KUMAR	39	23	62	43.4	15	18	8	41	12.3	55.7	65.52941
17	19085525417	MOHD. AVVALEEN	43	21	64	44.8	18	17	7	42	12.6	57.4	67.52941
18	19085525418	MOHD. SAIF	45	23	68	47.6	18	18	8	44	13.2	60.8	71.52941
19	19085525419	NISHANT KUMAR TYAGI	38	23	61	42.7	14	18	8	40	12	54.7	64.35294
20	19085525420	PRIYA TYAGI	49	23	72	50.4	17	18	8	43	12.9	63.3	74.47059
21	19085525421	RASHI PATLAN	47	18	65	45.5	14	16	7	37	11.1	56.6	66.58824
22	19085525422	VISHWAAS SHARMA	43	21	64	44.8	17	17	7	41	12.3	57.1	67.17647
23	19085525423	ZEHRRA HUSAINI	49	25	74	51.8	17	19	9	45	13.5	65.3	76.82353



Signature

ASSESSMENT FOR PROGRAMME TARGET VALUE

Course Name	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
INSTRUMENTATION AND MICROBIAL TECHNIQUES	MSC (MB) 101	2.25	2.25	2.25	2.00	0.25	2.25	0.50
MICROBIAL DIVERSITY -PROKARYOTES AND VIRUSES	MSC (MB) 102	2.75	2.75	3	2.25	2.5	1.5	1.5
MICROBIAL DIVERSITY -EUKARYOTES	MSC (MB) 103	1.8	1.4	1.6	2	2.2	0.4	1.4
BIOSTATISTICS,COMPUTER APPLICATION AND BIOINFORMATICS	MSC (MB)104	1.6	1.4	1.6	1.2	2.4	1.6	1.4
MICROBIAL PHYSIOLOGY AND BIOCHEMISTRY	MSC (MB) 201	1.75	1.5	1.25	0.5	2.5	2.25	1.75
MICROBIAL GENETICS MOLECULAR BIOLOGY AND GENETIC ENGINEERING	MSC (MB) 202	1.5	1.5	1.25	0.5	2.5	2.25	2.25
AGRICULTURAL MICROBIOLOGY	MSC (MB) 203	1.75	1.75	1.5	1.5	1.75	1.25	2
MICROBIAL ENVIRONMENTAL TECHNOLOGY	MSC (MB) 204	1.5	2.25	2.25	2.5	1.75	1	1.75
MEDICAL MICROBIOLOGY	MSC (MB) 301	1.75	1.75	1.25	1.75	1.75	0	1.75
12 MOLECULAR AND CLINICAL MICROBIOLOGY	MSC (MB) 302	2	2.25	2.75	2.25	1.75	0	0
FOOD AND DAIRY MICROBIOLOGY	MSC (MB)303	0	1.33	1	1.33	2	0.33	0
INDUSTRIAL MICROBIOLOGY	MSC (MB)304	2.25	1.75	1.75	1	1.5	1	1.75
Average Target Values		1.90	1.82	1.79	1.57	1.90	1.38	1.61



ASSESSMENT OF ATTAINMENT FOR PROGRAMME OUTCOME

Course Name	Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
INSTRUMENTATION AND MICROBIAL TECHNIQUES	MSC (MB) 101	2.25	2.25	2.25	2.00	0.25	2.25	0.50
MICROBIAL DIVERSITY -PROKARYOTES AND VIRUSES	MSC (MB) 102	2.75	2.75	3	2.25	2.5	1.5	1.5
MICROBIAL DIVERSITY -EUKARYOTES	MSC (MB) 103	1.8	1.4	1.6	2	2.2	0.4	1.4
BIOSTATISTICS,COMPUTER APPLICATION AND BIOINFORMATICS	MSC (MB)104	1.6	1.4	1.6	1.2	2.4	1.6	1.4
MICROBIAL PHYSIOLOGY AND BIOCHEMISTRY	MSC (MB) 201	1.75	1.5	1.25	0.5	2.5	2.25	1.75
MICROBIAL GENETICS MOLECULAR BIOLOGY AND GENETIC ENGINEERING	MSC (MB) 202	1.5	1.5	1.25	0.5	2.5	2.25	2.25
AGRICULTURAL MICROBIOLOGY	MSC (MB) 203	1.75	1.75	1.5	1.5	1.75	1.25	2
MICROBIAL ENVIRONMENTAL TECHNOLOGY	MSC (MB) 204	1.5	2.25	2.25	2.5	1.75	1	1.75
MEDICAL MICROBIOLOGY	MSC (MB) 301	1.75	1.75	1.25	1.75	1.75	0	1.75
12 MOLECULAR AND CLINICAL MICROBIOLOGY	MSC (MB) 302	2	2.25	2.75	2.25	1.75	0	0
FOOD AND DAIRY MICROBIOLOGY	MSC (MB)303	0	1.33	1	1.33	2	0.33	0
INDUSTRIAL MICROBIOLOGY	MSC (MB)304	2.25	1.75	1.75	1	1.5	1	1.75
PO Attainment through Results		1.90	1.82	1.79	1.57	1.90	1.38	1.61

80 % of PO Attainment through results (A)	1.52	1.46	1.43	1.25	1.52	1.1	1.29
Alumni Survey	2	2	3	2	3	2	2
10 % of Alumni Survey (B)	0.2	0.2	0.3	0.2	0.3	0.2	0.2
Employer/ Professional Survey	2	2	3	3	3	2	3
10 % of Employer Survey (C)	0.2	0.2	0.3	0.3	0.3	0.2	0.3
PO Attainment Value A+B+C	1.92	1.86	2.03	1.75	2.12	1.5	1.79
Target Value	1.90	1.82	1.79	1.57	1.90	1.38	1.61
Gap Value	0.02	0.04	0.24	0.18	0.22	0.12	0.18
Programme Attainment Status	yes	yes	yes	yes	yes	yes	yes

Talent



Subject Name: INSTRUMENTATION AND MICROBIAL TECHNIQUES

Code: MSC- 101

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	2	3	2	2	0	2	0
COs - 2		3	1	2	2	1	2	0
COs - 3		2	2	2	2	0	2	0
COs - 4		2	3	3	2	0	3	2
Average		2.25	2.25	2.25	2.00	0.25	2.25	0.50
Average Attainment		2.25	2.25	2.25	2.00	0.25	2.25	0.50

Subject Name: MICROBIAL DIVERSITY -PROKARYOTES AND VIRUSES

Code: MSC- 102

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	3	3	3	2	3	1	2
COs - 2		2	3	3	2	2	1	1
COs - 3		3	2	3	2	2	2	2
COs - 4		3	3	3	3	3	2	1
Average		2.75	2.75	3	2.25	2.5	1.5	1.5
Average Attainment		2.75	2.75	3	2.25	2.5	1.5	1.5

Subject Name: MICROBIAL DIVERSITY -EUKARYOTES

Code: MSC- 103

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	1	0	1	2	2	0	2
COs - 2		2	2	2	2	1	0	1
COs - 3		2	1	2	1	3	0	2
COs - 4		2	2	1	2	2	0	1
COs - 5		2	2	2	3	3	2	1
Average		1.8	1.4	1.6	2	2.2	0.4	1.4
Average Attainment		1.8	1.4	1.6	2	2.2	0.4	1.4

Subject Name: BIostatistics, COMPUTER APPLICATION AND BIOINFORMATICS

Code: MSC- 104

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	1	1	1	1	2	2	1
COs - 2		2	2	2	1	3	2	2
COs - 3		2	1	2	2	2	1	1
COs - 4		2	1	1	1	2	2	2
COs - 5		1	2	2	1	3	1	1
Average		1.6	1.4	1.6	1.2	2.4	1.6	1.4
Average Attainment		1.6	1.4	1.6	1.2	2.4	1.6	1.4



Subject Name: MICROBIAL PHYSIOLOGY AND BIOCHEMISTRY
Code: MSC- 201

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	1	1	1	0	3	2	2
COs - 2		2	1	1	0	2	2	2
COs - 3		2	2	1	1	2	3	2
COs - 4		2	2	2	1	3	2	1
Average		1.75	1.5	1.25	0.5	2.5	2.25	1.75
Average Attainment		1.75	1.5	1.25	0.5	2.5	2.25	1.75

Subject Name: MICROBIAL GENETICS MOLECULAR BIOLOGY AND GENETIC ENGINEERING
Code: MSC- 202

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	2	1	1	0	3	2	2
COs - 2		1	1	1	0	2	2	3
COs - 3		2	2	1	1	2	3	2
COs - 4		1	2	2	1	3	2	2
Average		1.5	1.5	1.25	0.5	2.5	2.25	2.25
Average Attainment		1.5	1.5	1.25	0.5	2.5	2.25	2.25

Subject Name: AGRICULTURAL MICROBIOLOGY
Code: MSC- 203

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1		2	3	2	2	2	1	1
COs - 2		1	2	1	2	1	1	3
Cos 3	3	1	2	1	1	1	2	2
Cos-4		1	2	2	1	3	1	2
Average		1.75	1.75	1.5	1.5	1.75	1.25	2
Average Attainment		1.75	1.75	1.5	1.5	1.75	1.25	2

Subject Name: MICROBIAL ENVIRONMENTAL TECHNOLOGY
Code: MSC- 204

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1		1	2	2	2	1	2	2
COs - 2		2	3	2	2	2	1	2
COs - 3	3	1	2	3	3	2	1	2
COs - 4		2	2	2	3	2	0	1
Average		1.5	2.25	2.25	2.5	1.75	1	1.75
Average Attainment		1.5	2.25	2.25	2.5	1.775	1	1.75



Subject Name: MEDICAL MICROBIOLOGY

Code: MSC- 301

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	2	2	1	2	2	0	2
COs - 2		2	1	1	2	1	0	1
COs - 3		1	2	2	1	2	0	2
COs - 4		2	2	1	2	2	0	2
Average		1.75	1.75	1.25	1.75	1.75	0	1.75
Average Attainment		1.75	1.75	1.25	1.75	1.75	0	1.75

Subject Name: 12 MOLECULAR AND CLINICAL MICROBIOLOGY

Code: MSC- 302

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	2	2	3	2	1	0	0
COs - 2		2	2	3	3	2	0	0
COs - 3		3	3	2	2	2	0	0
COs - 4		1	2	3	2	2	0	0
Average		2	2.25	2.75	2.25	1.75	0	0
Average Attainment		2	2.25	2.75	2.25	1.75	0	0

Subject Name: FOOD AND DAIRY MICROBIOLOGY

Code: MSC- 303

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	0	1	1	1	2	1	0
COs - 2		0	1	1	2	2	0	0
COs - 3		0	2	1	1	2	0	0
Average		0.00	1.33	1.00	1.33	2.00	0.33	0.00
Average Attainment		0.00	1.33	1.00	1.33	2.00	0.33	0.00

Subject Name: INDUSTRIAL MICROBIOLOGY

Code: MSC- 304

	Attainment	POs - 1	POs - 2	POs - 3	POs - 4	POs - 5	POs - 6	POs - 7
COs - 1	3	2	2	2	1	1	1	2
COs - 2		3	2	1	1	2	1	2
COs - 3		2	2	2	1	1	1	1
COs - 4		2	1	2	1	2	1	2
Average		2.25	1.75	1.75	1	1.5	1	1.75
Average Attainment		2.25	1.75	1.75	1	1.5	1	1.75

THANKS



SHRI RAM COLLEGE, MUZAFFARNAGAR

Faculty of Bioscience (2019-20)

Name of Programme: M.Sc. Biotechnology (1st Sem)

Name of Course/ Subject : Fundamental of Genetics (101)

Assessment of Students

S.NO	Student Name	External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	Total Direct Assessment (A+B)=C 100	70 % of C =(D) 70	Indirect Assessment			Total of Indirect Assessment (E) 50	30 % of E = (F) 15	Total Assessment (D+F)=G 85	Percentage of Marks out of 85 G*100/85
						Assignment 20	Attendance 20	Behaviour / Attitude 10				
1	ANJALI BHANDARI	36	42	78	54.6	15	15	8	38	11.4	66	77.64705882
2	ANNU	38	47	85	59.5	14	14	8	36	10.8	70.3	82.70588235
3	APURVA	37	48	85	59.5	15	15	8	38	11.4	70.9	83.41176471
4	DEEPSHIKHA	40	46	86	60.2	15	15	8	38	11.4	71.6	84.23529412
5	ISHA BHARDWAJ	42	43	85	59.5	15	15	8	38	11.4	70.9	83.41176471
6	JOYA TYAGI	38	41	79	55.3	16	16	8	40	12	67.3	79.17647059
7	JYOTI	40	44	84	58.8	18	18	8	44	13.2	72	84.70588235
8	KM AKANKSHA	31	41	72	50.4	18	18	7	43	12.9	63.3	74.47058824
9	KM NAINA SWAROOP	30	42	72	50.4	18	18	6	42	12.6	63	74.11764706
10	LAVI SAINI	23	38	61	42.7	18	18	7	43	12.9	55.6	65.41176471
11	LOVEPREET KAUR	35	48	83	58.1	15	15	6	36	10.8	68.9	81.05882353
12	NITIN KUMAR	29	45	74	51.8	18	18	5	41	12.3	64.1	75.41176471
13	RABIA PARVEEN	39	46	85	59.5	15	15	6	36	10.8	70.3	82.70588235
14	RAJNEESH KUMAR	31	38	69	48.3	18	18	7	43	12.9	61.2	72
15	RIZWAN	32	41	73	51.1	15	15	8	38	11.4	62.5	73.52941176
16	SACHIN KUMAR	32	40	72	50.4	14	14	8	36	10.8	61.2	72
17	SANIYA ZAIDI	35	47	82	57.4	15	15	9	39	11.7	69.1	81.29411765
18	SURIYA KANTI SAINI	23	46	69	48.3	15	15	8	38	11.4	59.7	70.23529412
19	VAISHALI NAMDEV	34	41	75	52.5	15	15	7	37	11.1	63.6	74.82352941
20	VINOD KUMAR	20	43	63	44.1	16	16	8	40	12	56.1	66
21	Vishal Kumar Rana	35	45	80	56	15	15	6	36	10.8	66.8	78.58823529

Methodology of Assessment

S.No	Parameter	No. of student (f)	Weightage (x)	f*x (Multiply of entries column f & x)
1	No of Students getting marks more than 60%	21	3	63
2	No of Students getting marks between 40 - 60%	0	2	0
3	No of Students getting marks less than 40%	0	1	0
Total	Σf	21		63

Average of Attainment of Course outcome = $\Sigma fx / \Sigma f = m$

Scaling of Course outcome = $m/3 * 100\%$

3

100%



Co-ordinator
IQAC, Shri Ram College,
Muzaffarnagar

Principal
Shri Ram College
Muzaffarnagar

SHRI RAM COLLEGE, MUZAFFARNAGAR

Faculty of Bioscience (2019-20)

Name of Programme: M.Sc. Biotechnology (IInd Sem)

Name of Course/ Subject : Fundamental of Biochemistry (201)

Assessment of Students

S.NO	Student Name	External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	Total Direct Assessment (A+B)=C 100	70 % of C = (D) 70	Indirect Assessment			Total of Indirect Assessment (E) 50	30 % of E = (F) 15	Total Assessment (D+F)=G 85	Percentage of Marks out of 85 G*100/85
						Assignment 20	Attendance 20	Behaviour / Attitude 10				
1	ANJALI BHANDARI	30	42	72	50.4	15	15	8	38	11.4	61.8	72.70588235
2	ANNU	35	42	77	53.9	14	14	8	36	10.8	64.7	76.11764706
3	APURVA	34	49	83	58.1	15	15	8	38	11.4	69.5	81.76470588
4	DEEPSHIKHA	37	47	84	58.8	15	15	8	38	11.4	70.2	82.58823529
5	ISHA BHARDWAJ	32	42	74	51.8	15	15	8	38	11.4	63.2	74.35294118
6	JOYA TYAGI	33	42	75	52.5	16	16	8	40	12	64.5	75.88235294
7	JYOTI	35	45	80	56	18	18	8	44	13.2	69.2	81.41176471
8	KM AKANKSHA	30	42	72	50.4	18	18	7	43	12.9	63.3	74.47058824
9	KM NAINA SWAROOP	28	41	69	48.3	18	18	6	42	12.6	60.9	71.64705882
10	LAVI SAINI	24	39	63	44.1	18	18	7	43	12.9	57	67.05882353
11	LOVEPREET KAUR	32	48	80	56	15	15	6	36	10.8	66.8	78.58823529
12	NITIN KUMAR	28	46	74	51.8	18	18	5	41	12.3	64.1	75.41176471
13	RABIA PARVEEN			0	0	15	15	6	36	10.8	10.8	12.70588235
14	RAJNEESH KUMAR	30	40	70	49	18	18	7	43	12.9	61.9	72.82352941
15	RIZWAN	32	42	74	51.8	15	15	8	38	11.4	63.2	74.35294118
16	SACHIN KUMAR	31	40	71	49.7	14	14	8	36	10.8	60.5	71.17647059
17	SANIYA ZAIDI	34	47	81	56.7	15	15	9	39	11.7	68.4	80.47058824
18	SURYA KANT SAINI	26	47	73	51.1	15	15	8	38	11.4	62.5	73.52941176
19	VAISHALI NAMDEV	31	43	74	51.8	15	15	7	37	11.1	62.9	74
20	VINOD KUMAR	27	44	71	49.7	16	16	8	40	12	61.7	72.58823529
21	Vishal Kumar Rana	33	46	79	55.3	15	15	6	36	10.8	66.1	77.76470588

Methodology of Assessment

S.No	Parameter	No. of student (f)	Weightage (x)	f*x (Multiply of entries column f & x)
1	No of Students getting marks more than 60%	21	3	63
2	No of Students getting marks between 40 - 60%	0	2	0
3	No of Students getting marks less than 40%	0	1	0
Total	Σf	21		63

Average of
Attainment of Course
outcome = $\Sigma fx / \Sigma f = m$
Scaling of Course
outcome = $m/3 * 100$
%

3

100%



Co-ordinator
IQAC, Shri Ram College,
Muzaffarnagar

Principal
Shri Ram College
Muzaffarnagar

SHRI RAM COLLEGE, MUZAFFARNAGAR

Faculty of Bioscience (2019-20)

Name of Programme: M.Sc. Biotechnology (IInd Sem)

Name of Course/ Subject : Concept of Nanotechnology (302)

Assessment of Students

S.NO	Student Name	External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	Total Direct Assessment (A+B)=C 100	70 % of C =(D) 70	Indirect Assessment			Total of Indirect Assessment (E) 50	30 % of E = (F) 15	Total Assessment (D+F)=G 85	Percentage of Marks out of 85 G*100/85
						Assignment 20	Attendance 20	Behaviour / Attitude 10				
1	ANAM SIDDIQUE	43	47	90	63	15	15	8	38	11.4	74.4	87.52941176
2	NEELIMA TOMAR	46	44	90	63	14	14	8	36	10.8	73.8	86.82352941
3	RITIKA RAJPUT	44	43	87	60.9	15	15	8	38	11.4	72.3	85.05882353
4	SONALI RAO	37	49	86	60.2	15	15	8	38	11.4	71.6	84.23529412
5	DIKSHA NIRWAL	39	46	85	59.5	15	15	8	38	11.4	70.9	83.41176471
6	KM VISHU	41	39	80	56	16	16	8	40	12	68	80
7	ANCHAL	43	40	83	58.1	18	18	8	44	13.2	71.3	83.88235294
8	SHEETAL SAINI	41	41	82	57.4	18	18	7	43	12.9	70.3	82.70588235
9	AKANSHA	39	43	82	57.4	18	18	6	42	12.6	70	82.35294118
10	DEEPA KUMARI	23	48	71	49.7	18	18	7	43	12.9	62.6	73.64705882
11	PRIYANKA RANI	36	42	78	54.6	15	15	6	36	10.8	65.4	76.94117647
12	PRACHI	27	48	75	52.5	18	18	5	41	12.3	64.8	76.23529412
13	NISHA	29	43	72	50.4	15	15	6	36	10.8	61.2	72
14	FARHA	28	47	75	52.5	18	18	7	43	12.9	65.4	76.94117647
15	PRIYANKA	27	49	76	53.2	15	15	8	38	11.4	64.6	76
16	TUSHAR PUNDIR	26	43	69	48.3	14	14	8	36	10.8	59.1	69.52941176
17	KM ALKA	27	45	72	50.4	15	15	9	39	11.7	62.1	73.05882353
18	Km Anjali Devi	27	45	72	50.4	15	15	8	38	11.4	61.8	72.70588235
19	FARHEE ZAIDI	39	39	78	54.6	15	15	7	37	11.1	65.7	77.29411765
20	ROCKY	21	44	65	45.5	16	16	8	40	12	57.5	67.64705882
21	SHUBHAM KUMAR	22	48	70	49	15	15	6	36	10.8	59.8	70.35294118
22	KM RUBI	35	42	77	53.9	15	15	6	36	10.8	64.7	76.11764706

Methodology of Assessment

S.No	Parameter	No. of student (f)	Weightage (x)	f*x (Multiply of entries column f & x)
1	No of Students getting marks more than 60%	22	3	66
2	No of Students getting marks between 40 - 60%	0	2	0
3	No of Students getting marks less than 40%	0	1	0
Total	Σf	22		66

Average of
Attainment of
Course outcome =
 $\Sigma fx / \Sigma f = m$
Scaling of Course
outcome = $m/3 * 100\%$

3

100%



shu

Principal

Principal
Shri Ram College
Muzaffarnagar

Co-ordinator
Co-ordinator
IQAC, Shri Ram College,
Muzaffarnagar

SHRI RAM COLLEGE, MUZAFFARNAGAR

Faculty of Bioscience (2019-20)

Name of Programme: M.Sc. Biotechnology (Ivth Sem)

Name of Course/ Subject : Dissertation/Project (401)

Assessment of Students

S.NO	Student Name	External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	Total Direct Assessment (A+B)=C 450	70 % of C =(D) 315	Indirect Assessment			Total of Indirect Assessment (E) 50	30 % of E =(F) 15	Total Assessment (D+F)=G 330	Percentage of Marks out of 85 G*100/85
						Assignment 20	Attendance 20	Behaviour / Attitude 10				
1	ANAM SIDDIQUE	380	47	427	298.9	15	15	8	38	11.4	310.3	94.03030303
2	NEELIMA TOMAR	378	44	422	295.4	14	14	8	36	10.8	306.2	92.78787879
3	RITIKA RAIPUT	375	43	418	292.6	15	15	8	38	11.4	304	92.12121212
4	SONALI RAO	375	49	424	296.8	15	15	8	38	11.4	308.2	93.39393939
5	DIKSHA NIRWAL	355	46	401	280.7	15	15	8	38	11.4	292.1	88.51515152
6	KM VISHU	365	39	404	282.8	16	16	8	40	12	294.8	89.33333333
7	ANCHAL	360	40	400	280	18	18	8	44	13.2	293.2	88.84848485
8	SHEETAL SAINI	370	41	411	287.7	18	18	7	43	12.9	300.6	91.09090909
9	AKANSHA	345	43	388	271.6	18	18	6	42	12.6	284.2	86.12121212
10	DEEPA KUMARI	365	48	413	289.1	18	18	7	43	12.9	302	91.51515152
11	PRIYANKA RANI	345	42	387	270.9	15	15	6	36	10.8	281.7	85.36363636
12	PRACHI	340	48	388	271.6	18	18	5	41	12.3	283.9	86.03030303
13	NISHA	350	43	393	275.1	15	15	6	36	10.8	285.9	86.63636364
14	FARHA	345	47	392	274.4	18	18	7	43	12.9	287.3	87.06060606
15	PRIYANKA	360	49	409	286.3	15	15	8	38	11.4	297.7	90.21212121
16	TUSHAR PUNDIR	370	43	413	289.1	14	14	8	36	10.8	299.9	90.87878788
17	KM ALKA	340	45	385	269.5	15	15	9	39	11.7	281.2	85.21212121
18	Km Anjali Devi	345	45	390	273	15	15	8	38	11.4	284.4	86.18181818
19	FARHEE ZAIDI	345	39	384	268.8	15	15	7	37	11.1	279.9	84.81818182
20	ROCKY	370	44	414	289.8	16	16	8	40	12	301.8	91.45454545
21	SHUBHAM KUMAR	350	48	398	278.6	15	15	6	36	10.8	289.4	87.69696967
22	KM RUBI	340	42	382	267.4	15	15	6	36	10.8	278.2	84.3030303

Methodology of Assessment

S.No	Parameter	No. of student (f)	Weightage (x)	f*x (Multiply of entries column f & x)
1	No of Students getting marks more than 60%	22	3	66
2	No of Students getting marks between 40 - 60%	0	2	0
3	No of Students getting marks less than 40%	0	1	0
Total	Σf	22		66

Average of
Attainment of Course
outcome = $\Sigma fx / \Sigma f = m$
Scaling of Course
outcome = $m/3 * 100$
%

3

100%



Signature

Signature

Signature
Co-ordinator
IQAC, Shri Ram College,
Muzaffarnagar

Principal
Shri Ram College
Muzaffarnagar

SHRI RAM COLLEGE, MUZAFFARNAGAR

Faculty of Bioscience (2019-20)

Name of Programme: M.Sc. Microbiology (1st Sem) Name of Course/ Subject : Techniques in microbiology (101)

Assessment of Students

S.NO	Student Name	External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	Total Direct Assessment (A+B)=C 100	70 % of C =(D) 70	Indirect Assessment			Total of Indirect Assessment (E) 50	30 % of E =(F) 15	Total Assessment (D+F)=G 85	Percentage of Marks out of 85 G*100/85
						Assignment 20	Attendance 20	Behaviour / Attitude 10				
1	AALIYA FATIMA	32	47	79	55.3	15	15	8	38	11.4	66.7	78.47059
2	AJAY PRATAP SINGH RANA	31	43	74	51.8	14	14	8	36	10.8	62.6	73.64706
3	ANIT KUMAR	32	42	74	51.8	15	15	8	38	11.4	63.2	74.35294
4	ARUN GUJRAL	33	39	72	50.4	15	15	8	38	11.4	61.8	72.70588
5	ASHEESH KUMAR	33	43	76	53.2	15	15	8	38	11.4	64.6	76
6	FADAK ZEHRA	33	48	81	56.7	16	16	8	40	12	68.7	80.82353
7	FARHA	38	49	87	60.9	18	18	8	44	13.2	74.1	87.17647
8	JAHANGEER ALAM	27	42	69	48.3	18	18	7	43	12.9	61.2	72
9	Km AANCHAL	34	41	75	52.5	18	18	6	42	12.6	65.1	76.58824
10	KM KOSHAR JAHAN	33	45	78	54.6	18	18	7	43	12.9	67.5	79.41176
11	KM PREETI NAMDEV	26	46	72	50.4	15	15	6	36	10.8	61.2	72
12	KM Saiyyada Razia	35	47	82	57.4	18	18	5	41	12.3	69.7	82
13	Km SHIVANI PAL	38	47	85	59.5	15	15	6	36	10.8	70.3	82.70588
14	KM SHIVANI TYAGI	33	45	78	54.6	18	18	7	43	12.9	67.5	79.41176
15	MANU TOMAR	32	45	77	53.9	15	15	8	38	11.4	65.3	76.82353
16	MAYANK KUMAR	35	38	73	51.1	14	14	8	36	10.8	61.9	72.82353
17	MOHD. AVVALEEN	27	42	69	48.3	15	15	9	39	11.7	60	70.58824
18	MOHD. SAIF	34	44	78	54.6	15	15	8	38	11.4	66	77.64706
19	NISHANT KUMAR TYAGI	35	38	73	51.1	15	15	7	37	11.1	62.2	73.17647
20	PRIYA TYAGI	41	48	89	62.3	16	16	8	40	12	74.3	87.41176
21	RASHI PATLAN	38	46	84	58.8	15	15	6	36	10.8	69.6	81.88235
22	VISHWAAS SHARMA	34	43	77	53.9	15	15	6	36	10.8	64.7	76.11765
23	ZEHRA HUSAINI	42	49	91	63.7	15	15	6	36	10.8	74.5	87.64706

S.No	Parameter	No. of student (f)	Weightage (x)	f*x (Multiply of entries column f&x)
1	No of Students getting marks more than 60%	23	3	69
2	No of Students getting marks between 40 - 60%	0	2	0
3	No of Students getting marks less than 40%	0	1	0
Total	Σf	23		69

Average of Attainment

of Course outcome =

$$\Sigma fx / \Sigma f = m$$

3

Scaling of Course

$$\text{outcome} = m/3 * 100 \%$$

100%

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SHRI RAM COLLEGE, MUZAFFARNAGAR

Faculty of Bioscience (2019-20)

Name of Programme: M.Sc. Microbiology (IInd Sem) Name of Course/ Subject: Mic. Physiology & Biochem (201)

Assessment of Students

S.NO	Student Name	External Marks (A)	Internal Marks (B) Class Test/ Unit Test	Total Direct Assessment (A+B)=C 100	70 % of C =(D) 70	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E =(F) 15	Total Assessment (D+F)=G 85
						Assignment 20	Attendance 20	Behaviour / Attitude 10			
1	AALIYA FATIMA	36	48	84	58.8	15	15	8	38	11.4	70.2
2	AJAY PRATAP SINGH RANA	32	41	73	51.1	14	14	8	36	10.8	61.9
3	ANIT KUMAR	28	43	71	49.7	15	15	8	38	11.4	61.1
4	ARUN GUJRAL	31	43	74	51.8	15	15	8	38	11.4	63.2
5	ASHEESH KUMAR	29	39	68	47.6	18	18	9	45	13.5	61.1
6	FADAK ZEHRA	29	43	72	50.4	16	16	8	40	12	62.4
7	FARHA	32	43	75	52.5	18	18	8	44	13.2	65.7
8	JAHANGEER ALAM	33	47	80	56	18	18	7	43	12.9	68.9
9	Km AANCHAL	39	49	88	61.6	18	18	6	42	12.6	74.2
10	KM KUSHAR JAHAN	25	42	67	46.9	18	18	8	44	13.2	60.1
11	KM PREETI NAMDEV	24	46	70	49	15	15	8	38	11.4	60.4
12	KM Saiyyada Razia	31	46	77	53.9	18	18	5	41	12.3	66.2
13	Km SHIVANI PAL	30	39	69	48.3	17	18	6	41	12.3	60.6
14	KM SHIVANI TYAGI	32	38	70	49	18	18	7	43	12.9	61.9
15	MANU TOMAR	27	47	74	51.8	15	15	8	38	11.4	63.2
16	MAYANK KUMAR	34	49	83	58.1	14	14	8	36	10.8	68.9
17	MOHD. AVVALEEN	37	47	84	58.8	15	15	9	39	11.7	70.5
18	MOHD. SAIF	34	44	78	54.6	15	15	8	38	11.4	66
19	NISHANT KUMAR TYAGI	35	48	83	58.1	15	15	7	37	11.1	69.2
20	PRIYA TYAGI	33	48	81	56.7	16	16	8	40	12	68.7
21	RASHI PATLAN	32	46	78	54.6	15	15	6	36	10.8	65.4
22	VISHWAAS SHARMA	30	43	73	51.1	15	15	6	36	10.8	61.9
23	ZEHRA HUSAINI	41	49	90	63	15	15	6	36	10.8	73.8

S.No	Parameter	No. of student (f)	Weightage (x)	f*x (Multiply of entries column f & x)
1	No of Students getting marks more than 60%	23	3	69
2	No of Students getting marks between 40 - 60%	0	2	0
3	No of Students getting marks less than 40%	0	1	0
Total		Σf	23	69

Average of Attainment of Course outcome
 $= \Sigma fx / \Sigma f = m$
 3
 Scaling of Course outcome
 $= m/3 * 100\%$
 100%

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SHRI RAM COLLEGE, MUZAFFARNAGAR

Faculty of Bioscience (2019-20)

Name of Programme: M.Sc. Microbiology (IIIrd Sem) Name of Course/ Subject : Immunology & clinical micro (302)

Assessment of Students

S.NO	Student Name	External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	Total Direct Assessment (A+B)=C 100	70 % of C =(D) 70	Indirect Assessment			Total of Indirect Assessment (E) 50	30 % of E =(F) 15	Total Assessment (D+F)=G 85	Percentage of Marks out of 85 G*100/85
						Assignment 20	Attendance 20	Behaviour / Attitude 10				
1	AMRITA CHOPRA	31	46	77	53.9	15	15	8	38	11.4	65.3	76.82353
2	ARBAZ	22	45	67	46.9	14	14	8	36	10.8	57.7	67.88235
3	AVISHANT	20	43	63	44.1	15	15	8	38	11.4	55.5	65.29412
4	HUMA RANA	37	49	86	60.2	15	15	8	38	11.4	71.6	84.23529
5	HUMA RANA	30	45	75	52.5	15	15	8	38	11.4	63.9	75.17647
6	IMRAN ALAM	22	40	62	43.4	16	16	8	40	12	55.4	65.17647
7	KM ANAMIKA	26	41	67	46.9	18	18	8	44	13.2	60.1	70.70588
8	KM REETU	31	44	75	52.5	18	18	7	43	12.9	65.4	76.94118
9	KM RUPA RANI	31	48	79	55.3	18	18	6	42	12.6	67.9	79.88235
10	KM SHIVANI DEVI	24	41	65	45.5	18	18	7	43	12.9	58.4	68.70588
11	MITANSHI SINGH	41	47	88	61.6	15	15	6	36	10.8	72.4	85.17647
12	NIKITA SINGH	33	44	77	53.9	18	18	5	41	12.3	66.2	77.88235
13	NIKUNJ KUMAR	33	47	80	56	15	15	6	36	10.8	66.8	78.58824
14	NIVYA	35	48	83	58.1	18	18	7	43	12.9	71	83.52941
15	SAKSHI SAINI	31	44	75	52.5	15	15	8	38	11.4	63.9	75.17647
16	SANA PRAVEEN	28	45	73	51.1	14	14	8	36	10.8	61.9	72.82353
17	SANJAY KUMAR	30	46	76	53.2	15	15	9	39	11.7	64.9	76.35294
18	SRIKANT	19	40	59	41.3	15	15	8	38	11.4	52.7	62
19	SUNDAR LAL	34	43	77	53.9	15	15	7	37	11.1	65	76.47059
20	UJALA	35	47	82	57.4	16	16	8	40	12	69.4	81.64706
21	VIKAS PUNDIR	29	43	72	50.4	15	15	6	36	10.8	61.2	72
22	VISHAL KUMAR	25	48	73	51.1	15	15	6	36	10.8	61.9	72.82353
23	VISHAL KUMAR	23	42	65	45.5	15	15	6	36	10.8	56.3	66.23529

S.No	Parameter	No. of student (f)	Weightage (x)	f*x (Multiply of entries column f&x)
1	No of Students getting marks more than 60%	23	3	69
2	No of Students getting marks between 40 - 60%	0	2	0
3	No of Students getting marks less than 40%	0	1	0
Total	Σf	23		69

Average of Attainment
of Course outcome =
 $\Sigma fx / \Sigma f = m$ **3**

Scaling of Course
outcome = $m/3 * 100\%$ **100%**

[Signature]
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SHRI RAM COLLEGE, MUZAFFARNAGAR

Faculty of Bioscience (2019-20)

Name of Programme: M.Sc. Microbiology (IVth Sem) Name of Course/ Subject : Industrial Microbiology (403)

Assessment of Students

S.NO	Student Name	External Marks (A)	Internal Marks (B) Class Test/ Unit Test Sessional Test	Total Direct Assessment (A+B)=C 100	70 % of C =(D) 70	Indirect Assessment			Total of Indirect Assessment (E) 50	30 % of E =(F) 15	Total Assessment (D+F)=G 85	Percentage of Marks out of 85 G*100/85
						Assignment 20	Attendance 20	Behaviour / Attitude 10				
1	AMRITA CHOPRA	30	46	76	53.2	15	15	8	38	11.4	64.6	76
2	ARBAZ	30	42	72	50.4	14	14	8	36	10.8	61.2	72
3	AVISHANT	24	44	68	47.6	15	15	8	38	11.4	59	69.41176
4	HUMA RANA	28	39	67	46.9	15	15	8	38	11.4	58.3	68.58824
5	IMRAN ALAM	37	48	85	59.5	16	16	8	40	12	71.5	84.11765
6	KM ANAMIKA	26	43	69	48.3	18	18	8	44	13.2	61.5	72.35294
7	KM REETU	39	48	87	60.9	18	18	7	43	12.9	73.8	86.82353
8	KM RUPA RANI	36	45	81	56.7	18	18	6	42	12.6	69.3	81.52941
9	KM SHIVANI DEVI	33	46	79	55.3	18	18	7	43	12.9	68.2	80.23529
10	MITANSHI SINGH	33	48	81	56.7	15	15	6	36	10.8	67.5	79.41176
11	NIKITA SINGH	25	43	68	47.6	18	18	5	41	12.3	59.9	70.47059
12	NIKUNJ KUMAR	34	48	82	57.4	15	15	6	36	10.8	68.2	80.23529
13	NIVYA	24	43	67	46.9	18	18	7	43	12.9	59.8	70.35294
14	SAKSHI SAINI	29	45	74	51.8	15	15	8	38	11.4	63.2	74.35294
15	SANA PRAVEEN	34	45	79	55.3	14	14	8	36	10.8	66.1	77.76471
16	SANJAY KUMAR	26	43	69	48.3	15	15	9	39	11.7	60	70.58824
17	SRIKANT	22	41	63	44.1	15	15	8	38	11.4	55.5	65.29412
18	SUNDAR LAL	31	44	75	52.5	15	15	7	37	11.1	63.6	74.82353
19	UJALA	26	48	74	51.8	16	16	8	40	12	63.8	75.05882
20	VIKAS PUNDIR	23	43	66	46.2	15	15	6	36	10.8	57	67.05882
21	VISHAL KUMAR	23	48	71	49.7	15	15	6	36	10.8	60.5	71.17647
22	VISHAL KUMAR	19	43	62	43.4	15	15	6	36	10.8	54.2	63.76471

S.No	Parameter	No. of student (f)	Weightage (x)	f*x (Multiply of entries column f & x)
1	No of Students getting marks more than 60%	22	3	66
2	No of Students getting marks between 40 - 60%	0	2	0
3	No of Students getting marks less than 40%	0	1	0
Total	Σf	22		66

Average of Attainment of Course outcome = $\Sigma fx / \Sigma f = m$	3
Scaling of Course outcome = $m/3 * 100\%$	100%

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SHRI RAM COLLEGE, MUZAFFARNAGAR

Faculty of Bioscience (2019-20)

Name of Programme: B.Sc. Biotechnology (IInd year) Name of Course/ Subject : Animal Biotech (301)

Assessment of Students

S.NO	Student Name	External Marks (A)	Internal Marks (B) Class Test/ Unit Test	Total Direct Assessment (A+B)=C 100	70 % of C =(D) 70	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E = (F) 15	Total Assessment (D+F)=G 85	Percentage of Marks out of 85 G*100/85
						Assignment 20	Attendance 20	Behaviour / Attitude 10				
1	AMAN KUMAR	35	44	79	55.3	15	15	8	38	11.4	66.7	78.47059
2	ASHISH KUMAR SAGAR	36	43	79	55.3	14	14	8	36	10.8	66.1	77.76471
3	AYUSHI	36	34	70	49	15	15	8	38	11.4	60.4	71.05882
4	MANSI GARG	28	26	54	37.8	18	18	8	44	13.2	51	60
5	ROHIT	31	22	53	37.1	18	18	8	44	13.2	50.3	59.17647
6	SALURABH	28	35	63	44.1	18	18	8	44	13.2	57.3	67.41176
7	SHANKY SINGHWAL	48	36	84	58.8	18	18	7	43	12.9	71.7	84.35294
8	Sharoj	40	35	75	52.5	18	18	6	42	12.6	65.1	76.58824
9	SHEEBA	44	19	63	44.1	18	18	7	43	12.9	57	67.05882
10	TANIYA	38	2	40	28	15	15	6	36	10.8	38.8	45.64706
11	AARTI PUNDIR	39	27	66	46.2	18	18	5	41	12.3	58.5	68.82353
12	AMIT TYAGI	42	20	62	43.4	15	15	6	36	10.8	54.2	63.76471
13	ILMA PARVEEN	34	38	72	50.4	18	18	7	43	12.9	63.3	74.47059
14	ISHA TYAGI	44	37	81	56.7	15	15	8	38	11.4	68.1	80.11765
15	ISHIKA TYAGI	36	40	76	53.2	14	14	8	36	10.8	64	75.29412
16	JUHI KATYAL	42	38	80	56	15	15	9	39	11.7	67.7	79.64706
17	KM NEHA KHARKHODI	52	17	69	48.3	15	15	8	38	11.4	59.7	70.23529
18	KM RASHMI	40	27	67	46.9	15	15	7	37	11.1	58	68.23529
19	LAVI TYAGI	52	48	100	70	16	16	8	40	12	82	96.47059
20	MANISH KUMAR KEMWAL	44	40	84	58.8	15	15	6	36	10.8	69.6	81.88235
21	MOHD SAHIB	44	34	78	54.6	15	15	6	36	10.8	65.4	76.94118
22	MURSALEEN	31	27	58	40.6	15	15	6	36	10.8	51.4	60.47059
23	NOSHEEN NAWAB	50	35	85	59.5	16	16	8	40	12	71.5	84.11765
24	RADHIKA	38	55	93	65.1	18	18	8	44	13.2	78.3	92.11765
25	RIYA SINGH	47	50	97	67.9	18	18	7	43	12.9	80.8	95.05882
26	SAIMA WASIM	33	54	87	60.9	18	18	6	42	12.6	73.5	86.47059
27	SAKSHI	34	42	76	53.2	18	18	7	43	12.9	66.1	77.76471
28	SAMREEN PARVEEN	42	41	83	58.1	15	15	6	36	10.8	68.9	81.05882
29	SEHNUMMA	53	40	93	65.1	18	18	5	41	12.3	77.4	91.05882
30	SHIVANI	45	25	70	49	15	15	6	36	10.8	59.8	70.35294
31	UZMA RAO	56	38	94	65.8	16	16	8	40	12	77.8	91.52941
32	VAISHALI CHAUDHARY	42	16	58	40.6	18	18	8	44	13.2	53.8	63.29412
33	VARNIKA AHALAWAT	56	26	82	57.4	18	18	7	43	12.9	70.3	82.70588

S.No	Parameter	No. of student (f)	Weightage (x)	f*x (Multiply of entries column f & x)
1	No of Students getting marks more than 60%	33	3	99
2	No of Students getting marks between 40 - 60%	0	2	0
3	No of Students getting marks less than 40%	0	1	0
Total	Σf	33		99

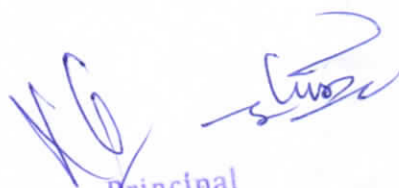
Average of Attainment
of Course outcome =
 $\Sigma fx / \Sigma f = m$

3

Scaling of Course
outcome = $m/3 * 100 \%$

100%


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SHRI RAM COLLEGE, MUZAFFARNAGAR

Faculty of Bioscience (2019-20)

Name of Programme: B.Sc. Microbiology (IIIrd year) Name of Course/ Subject : Food & Dairy Microbio (303)

Assessment of Students

S.NO	Student Name	External Marks (A)	Internal Marks (B) Class Test/ Unit Test	Total Direct Assessment (A+B)=C 100	70 % of C =(D) 70	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E =(F) 15	Total Assessment (D+F)=G 85	Percentage of Marks out of 85 G*100/85
						Assignment 20	Attendance 20	Behaviour / Attitude 10				
1	MANSI	26	35	61	42.7	15	15	8	38	11.4	54.1	63.64706
2	MOHD SALMAN KHAN	24	35	59	41.3	14	14	8	36	10.8	52.1	61.29412
3	RIZWAN	30	40	70	49	15	15	8	38	11.4	60.4	71.05882
4	VARUN KUMAR	30	29	59	41.3	18	18	8	44	13.2	54.5	64.11765
5	AASHNA KHAN	35	31	66	46.2	18	18	8	44	13.2	59.4	69.88235
6	AKSHAY KUMAR	31	29	60	42	18	18	8	44	13.2	55.2	64.94118
7	AMIRHAMJA	32	30	62	43.4	18	18	7	43	12.9	56.3	66.23529
8	ANJALI CHAUHAN	32	29	61	42.7	18	18	6	42	12.6	55.3	65.05882
9	ANJALI KUMARI	31	34	65	45.5	18	18	7	43	12.9	58.4	68.70588
10	ANSHIKA DHIMAN	36	34	70	49	15	15	6	36	10.8	59.8	70.35294
11	ARSHI PARVEEN	32	27	59	41.3	18	18	5	41	12.3	53.6	63.05882
12	BHAWNA	34	32	66	46.2	15	15	6	36	10.8	57	67.05882
13	DEEPAK PANWAR	27	30	57	39.9	18	18	7	43	12.9	52.8	62.11765
14	DISHA SHARMA	37	30	67	46.9	15	15	8	38	11.4	58.3	68.58824
15	KALPNA	32	31	63	44.1	14	14	8	36	10.8	54.9	64.58824
16	MOHAMMAD AKIL	29	40	69	48.3	15	15	9	39	11.7	60	70.58824
17	MOHD ANAS	34	32	66	46.2	15	15	8	38	11.4	57.6	67.76471
18	MOHD ASIF	31	29	60	42	15	15	7	37	11.1	53.1	62.47059
19	MOHD SABEEL	30	27	57	39.9	16	16	8	40	12	51.9	61.05882
20	MOHIT KUMAR	28	40	68	47.6	15	15	6	36	10.8	58.4	68.70588
21	MUSAVVIR ALI CHAUDHARY	28	45	73	51.1	15	15	6	36	10.8	61.9	72.82353
22	PANKAJ KUMAR	34	33	67	46.9	15	15	6	36	10.8	57.7	67.88235
23	SABANA TYAGI	36	36	72	50.4	16	16	8	40	12	62.4	73.41176
24	SACHIN KUMAR	32	29	61	42.7	18	18	8	44	13.2	55.9	65.76471
25	SAKSHI JAIN	35	39	74	51.8	18	18	7	43	12.9	64.7	76.11765
26	SHAIFALI AGARWAL	36	33	69	48.3	18	18	6	42	12.6	60.9	71.64706
27	SHALU SINGH	38	40	78	54.6	18	18	7	43	12.9	67.5	79.41176
28	SHIFA NAAZ	26	40	66	46.2	15	15	6	36	10.8	57	67.05882
29	SHIVAM GUPTA	31	30	61	42.7	18	18	5	41	12.3	55	64.70588
30	SHRISTY	38	34	72	50.4	15	15	6	36	10.8	61.2	72
31	SHUBHAM KUMAR	28	34	62	43.4	16	16	8	40	12	55.4	65.17647
32	SUMIT SHARMA	28	33	61	42.7	18	18	8	44	13.2	55.9	65.76471
33	TARUN	24	45	69	48.3	18	18	7	43	12.9	61.2	72
34	VAISHALI	28	35	63	44.1	18	18	5	41	12.3	56.4	66.35294
35	VANSHIKA	30	36	66	46.2	15	15	6	36	10.8	57	67.05882
36	VIJAY KUMAR	30	33	63	44.1	16	16	8	40	12	56.1	66

S.No	Parameter	No. of student (f)	Weightage (x)	f*x (Multiply of entries column f & x)
1	No of Students getting marks more than 60%	36	3	108
2	No of Students getting marks between 40 - 60%	0	2	0
3	No of Students getting marks less than 40%	0	1	0
Total	Σf	36		108

Average of Attainment
of Course outcome =
 $\Sigma fx / \Sigma f = m$

3

Scaling of Course
outcome = $m/3 * 100$
%

100%


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Co-ordinator
IQAC, Shri Ram Coll
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SHRI RAM COLLEGE, MUZAFFARNAGAR

Faculty of Bioscience (2019-20)

Name of Programme: B.Sc. Biotechnology (IInd year) Name of Course/ Subject : Molecular Bio (203)

Assessment of Students

S.NO	Student Name	External Marks (A)	Internal Marks (B) Class Test/ Unit Test	Total Direct Assessment (A+B)=C 100	70 % of C =(D) 70	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E = (F) 15	Total Assessment (D+F)=G 85	Percentage of Marks out of 85 G*100/85
						Assignment 20	Attendance 20	Behaviour / Attitude 10				
1	MUSKAN VASHISHTHA	24	35	59	41.3	15	15	8	38	11.4	52.7	62
2	SANA	24	40	64	44.8	14	14	8	36	10.8	55.6	65.41176
3	ANKIT KUMAR	16	45	61	42.7	15	15	8	38	11.4	54.1	63.64706
4	AKSHAY KUMAR	21	40	61	42.7	18	18	8	44	13.2	55.9	65.76471
5	TULSA	21	42	63	44.1	18	18	8	44	13.2	57.3	67.41176
6	SABA RANA	38	38	76	53.2	18	18	8	44	13.2	66.4	78.11765
7	MOHD SARHAN	25	42	67	46.9	18	18	7	43	12.9	59.8	70.35294
8	SEAMON KULSHRESTHA	31	31	62	43.4	18	18	6	42	12.6	56	65.88235
9	MOHD MUSTAFA	22	45	67	46.9	18	18	7	43	12.9	59.8	70.35294
10	NADEEM AHMAD	32	32	64	44.8	15	15	6	36	10.8	55.6	65.41176
11	NITESH KATARIYA	25	40	65	45.5	18	18	5	41	12.3	57.8	68
12	SONU KUMAR	24	38	62	43.4	15	15	6	36	10.8	54.2	63.76471
13	SNEHA SAINI	29	29	58	40.6	18	18	7	43	12.9	53.5	62.94118
14	ANURADHA PAL	33	33	66	46.2	15	15	8	38	11.4	57.6	67.76471
15	AAKASH NADIA	33	33	66	46.2	14	14	8	36	10.8	57	67.05882
16	RITIKA PAL	32	32	64	44.8	15	15	9	39	11.7	56.5	66.47059
17	NADIR ALI	29	29	58	40.6	15	15	8	38	11.4	52	61.17647
18	MUKUL KUMAR	31	31	62	43.4	15	15	7	37	11.1	54.5	64.11765
19	ARVIND KUMAR	23	35	58	40.6	16	16	8	40	12	52.6	61.88235
20	NAMAN SHARMA	28	35	63	44.1	15	15	6	36	10.8	54.9	64.58824
21	PRACHI	26	38	64	44.8	15	15	6	36	10.8	55.6	65.41176
22	VIJAY KUMAR	21	42	63	44.1	15	15	6	36	10.8	54.9	64.58824
23	SHYAM KUMAR TYAGI	24	40	64	44.8	16	16	8	40	12	56.8	66.82353
24	VISHESH KUMAR	19	38	57	39.9	18	18	8	44	13.2	53.1	62.47059
25	SAINTY SAINI	25	35	60	42	18	18	7	43	12.9	54.9	64.58824
26	ROBIN SINGH	25	35	60	42	18	18	6	42	12.6	54.6	64.23529
27	SONIYA CHAUDHARY	26	30	56	39.2	18	18	7	43	12.9	52.1	61.29412
28	ZOYA ALI	38	38	76	53.2	15	15	6	36	10.8	64	75.29412
29	ANUSHKA	27	35	62	43.4	18	18	5	41	12.3	55.7	65.52941
30	ANJU	22	36	58	40.6	15	15	6	36	10.8	51.4	60.47059

S.No	Parameter	No. of student (f)	Weightage (x)	f*x (Multiply of entries column f & x)
1	No of Students getting marks more than 60%	30	3	90
2	No of Students getting marks between 40 - 60%	0	2	0
3	No of Students getting marks less than 40%	0	1	0
Total	Σf	30		90

Average of Attainment
of Course outcome =
 $\Sigma fx / \Sigma f = m$

3

Scaling of Course
outcome = $m/3 * 100\%$

100%


Co-ordinator
IQAC, Shri Ram College,
Muzaffarnagar


Principal
Shri Ram College
Muzaffarnagar

SHRI RAM COLLEGE, MUZAFFARNAGAR

Faculty of Bioscience (2019-20)

Name of Programme: B.Sc. Microbiology (IInd year) Name of Course/ Subject : Cell Biology (201)

Assessment of Students

S.NO	Student Name	External Marks (A)	Internal Marks (B) Class Test/ Unit Test	Total Direct Assessment (A+B)=C 100	70 % of C =(D) 70	Indirect Assessment			Total of Indirect Assessment (E)	30 % of E =(F) 15	Total Assessment (D+F)=G 85	Percentage of Marks out of 85 G*100/85
						Assignment 20	Attendance 20	Behaviour/ Attitude 10				
1	NAVED AKHTER	18	40	58	40.6	15	15	8	38	11.4	52	61.17647
2	MARIYAM	18	42	60	42	14	14	8	36	10.8	52.8	62.11765
3	AAYRA	15	45	60	42	15	15	8	38	11.4	53.4	62.82353
4	NAVED ALAM	18	45	63	44.1	18	18	8	44	13.2	57.3	67.41176
5	AASTHA SAINI	20	38	58	40.6	18	18	8	44	13.2	53.8	63.29412
6	AAYUSHI CHODHARY	27	38	65	45.5	18	18	8	44	13.2	58.7	69.05882
7	AJAY KUMAR	25	38	63	44.1	18	18	7	43	12.9	57	67.05882
8	AANCHAL CHAUDHARY	21	35	56	39.2	18	18	6	42	12.6	51.8	60.94118
9	ADITI SHARMA	27	38	65	45.5	18	18	7	43	12.9	58.4	68.70588
10	AARTI	24	34	58	40.6	15	15	6	36	10.8	51.4	60.47059
11	JAYA	20	37	57	39.9	18	18	5	41	12.3	52.2	61.41176
12	KHADEEJA	19	42	61	42.7	15	15	6	36	10.8	53.5	62.94118
13	AMIT KASHYAP	14	45	59	41.3	18	18	7	43	12.9	54.2	63.76471
14	ANVESH PAL	14	43	57	39.9	15	15	8	38	11.4	51.3	60.35294
15	MAZHAR KHAN	21	38	59	41.3	14	14	8	36	10.8	52.1	61.29412
16	MOHD RAKIB	18	42	60	42	15	15	9	39	11.7	53.7	63.17647
17	PRIYA	24	38	62	43.4	15	15	8	38	11.4	54.8	64.47059
18	PRIYA	28	37	65	45.5	15	15	7	37	11.1	56.6	66.58824
19	NANDINI SHARMA	18	40	58	40.6	16	16	8	40	12	52.6	61.88235
20	MOHD SUFIYAN	19	40	59	41.3	15	15	6	36	10.8	52.1	61.29412
21	SHIBLI ANAM	18	40	58	40.6	15	15	6	36	10.8	51.4	60.47059
22	SHRADDHA GUPTA	27	40	67	46.9	15	15	6	36	10.8	57.7	67.88235
23	SHILPA	26	39	65	45.5	16	16	8	40	12	57.5	67.64706
24	RITU TANWAR	25	39	64	44.8	18	18	8	44	13.2	58	68.23529
25	SHIFA RIZVI	16	43	59	41.3	18	18	7	43	12.9	54.2	63.76471
26	SALONI CHODHARY	27	39	66	46.2	18	18	6	42	12.6	58.8	69.17647
27	SOFIYA	27	38	65	45.5	18	18	7	43	12.9	58.4	68.70588
28	VAISHALI	16	45	61	42.7	15	15	6	36	10.8	53.5	62.94118
29	SUNAKSHI TYAGI	20	38	58	40.6	18	18	5	41	12.3	52.9	62.23529
30	TANIYA DHIMAN	20	38	58	40.6	15	15	6	36	10.8	51.4	60.47059
31	USHNA PARVEEN	21	40	61	42.7	16	16	8	40	12	54.7	64.35294
32	TAMKEEN	18	41	59	41.3	18	18	8	44	13.2	54.5	64.11765
33	FARHEEN	18	41	59	41.3	18	18	7	43	12.9	54.2	63.76471
34	VISHAL	18	42	60	42	18	18	5	41	12.3	54.3	63.88235
35	NITIN KUMAR	20	40	60	42	15	15	6	36	10.8	52.8	62.11765
36	MOHD USMAN	17	42	59	41.3	16	16	8	40	12	53.3	62.70588
37	VIPIN KUMAR	16	40	56	39.2	18	18	8	44	13.2	52.4	61.64706
38	CHINU	18	39	57	39.9	18	18	7	43	12.9	52.8	62.11765

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Total	Σf	30		90

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= $m/3 * 100\%$

100%


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