

(101MB24)

ASSIGNMENT-1

M.Sc. DEGREE EXAMINATION, DEC 2025

First Semester

Microbiology

VIROLOGY

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

1. (a) Describe the ultra structure and characters of viruses.
- (b) Describe the diseases caused by Viroids and the remedial measures.
2. (a) Explain the methods of cultivation of Viruses in embryonated eggs.
- (b) Describe the serological methods for detection of Viruses.
3. (a) Explain the symptoms of diseases caused by the plant Viruses.
- (b) Describe the methods of transmission of plant Viruses, mechanical and biological

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ASSIGNMENT-2

M.Sc. DEGREE EXAMINATION, DEC 2025

First Semester

Microbiology

VIROLOGY

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

1. (a) Describe the Ultra structure and brief account of life cycle of RNA viruses.

(b) Describe the Ultra structure and brief account of life cycles of DNA viruses.
 2. (a) Describe the general account of Algae and Fungi.

(b) Describe the preparation and production of Vaccines.
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ASSIGNMENT-1

M.Sc. DEGREE EXAMINATION, DEC 2025

First Semester

Microbiology

MICROBIAL BIOCHEMISTRY AND ANALYTICAL TECHNIQUES

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

1. (a) Describe the structure and physicochemical properties of monosaccharides.
(b) Describe the renaturation and denaturation of DNA.
2. (a) Explain the properties of amino acids and their uses.
(b) Explain the three dimensional structure of Proteins.
3. (a) Describe the nature and classification of enzymes.
(b) Explain the methods of purification and characterization of Proteins.

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ASSIGNMENT-2

M.Sc. DEGREE EXAMINATION, DEC 2025

First Semester

Microbiology

MICROBIAL BIOCHEMISTRY AND ANALYTICAL TECHNIQUES

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

1. (a) Explain the principles and applications of UV Mass Spectrometry.

 (b) Describe the principle and applications of differential centrifugation.

 2. (a) Describe the principle and applications of Ion exchange chromatography.

 (b) Describe the principle and applications of electrophoresis.
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ASSIGNMENT-1

M.Sc. DEGREE EXAMINATION, DEC 2025

, First Semester

Microbiology

BACTERIOLOGY

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

1. (a) Describe the principles of Bacterial taxonomy and classification of Bacteria.
(b) Describe the Ultra structure of typical bacterial cell.
2. (a) Explain the sterilization methods to control bacterial growth.
(b) Write an account on Lyophilization and Cryopreservation.
3. (a) Describe the methods of Nutrition in Bacteria.
(b) Explain the kinetics of growth in Bacteria and its significance.

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ASSIGNMENT-2

M.Sc. DEGREE EXAMINATION, DEC 2025

, First Semester

Microbiology

BACTERIOLOGY

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

1. (a) Describe the reproduction and significance of Archaeobacteria.
 (b) Describe the general characters and reproduction in Actinomycetes.
 2. (a) Describe the characters of Agrobacterium and Bacillus clostridium.
 (b) Explain the characteristic features of Rhizobium and Rickettsia
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ASSIGNMENT-1

M.Sc. DEGREE EXAMINATION, DEC 2025

First Semester

Microbiology

BIOLOGY OF EUKARYOTIC MICROBES

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

1. (a) Describe the structure and functions of mitochondria.

(b) Describe the structure and functions of Ribozomes.
2. (a) Explain the different stages of mitosis with labelled diagrams.

(b) Write an account on the types and structure of cytoskeletal filaments.
3. (a) Describe the thallus organisation in Algae.

(b) Explain the economic importance of algae.

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ASSIGNMENT-2

M.Sc. DEGREE EXAMINATION, DEC 2025

First Semester

Microbiology

BIOLOGY OF EUKARYOTIC MICROBES

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

1. (a) Describe the modes of nutrition in fungi.

 (b) Explain the edible and poisonous mushrooms.

 2. (a) Describe the morphology, nutrition and reproduction in Trypanosoma.

 (b) Explain the morphology, nutrition and reproduction in giardia.
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