

Dr. B R Ambedkar Open University
Faculty of science, M.Sc. Botany I year
Assignments Question Paper (2025-2026)

COURSE – 01: BIOLOGY AND DIVERSITY OF VIRUSES, BACTERIA AND FUNGI

Instructions

- Include on first page: Name, Admission number, Programme (MSc Botany), Course title, Assignment number (1 or 2), Study center name, Mobile number, Signature.
- Each course has two separate assignments (Assignment I and Assignment II), each carrying 15 marks with a minimum passing mark of 06; do not submit a single combined assignment.
- Answer all the questions and draw diagram where ever necessary.
- Each question carries 5 marks
- Do not copy-paste from others; write in your own words to avoid disqualification.
- For references use academic books, Google, research articles
- Formatting Standards: Handwrite on A4 sheets, legible; page numbers
- Submission Process: Staple and submit it to the PG coordinator, Dr Braou, STML building. Obtain an acknowledged receipt and keep a copy for you record.

ASSIGNMENT – 1

Max.Marks -15

Min.Marks – 06

1. Describe different techniques employed in viral purification.
2. Write differences between the Gram positive and Gram negative bacteria.
3. Evaluate biofertilizer's role in sustainable agriculture and nutrient cycling

ASSIGNMENT - II

Max.Marks -15

Min.Marks – 06

1. Describe in detail different types of nutrition in fungi.
2. Analyze the differences between the Bacteria and Fungi
3. Evaluate the economic importance of fungi by describing their role in medicine and agriculture

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**COURSE – 02: BIOLOGY AND DIVERSITY OF ALGAE, BRYOPHYTA AND
PTERIDOPHYTA**

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ASSIGNMENT - I

Max.Marks -15

Min.Marks – 06

1. Describe the general character of Algae
2. Evaluate the economic importance of Diatoms.
3. Analyze the differences between the Algae and Bryophytes

ASSIGNMENT – II

Max.Marks -15

Min.Marks – 06

1. Analyze the differences between the Bryophytes and Pteridophytes
2. Write an essay on Telome theory. Discuss briefly about its merits and demerits
3. Analyze how heterospory leads to seed habit in Pteridophytes.

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COURSE – 03: GYMNOSPERMS, TAXONOMY OF ANGIOSPERMS AND
ANATOMY

Instructions

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ASSIGNMENT - I

Max.Marks -15

Min.Marks – 06

1. Describe the general character of Gymnosperms
2. Evaluate the economic importance of Gymnosperms
3. Explain the principles of ICN

ASSIGNMENT – II

Max.Marks -15

Min.Marks – 06

1. Classification of meristems basing on position.
2. Enumerate the general characters of Nymphaeaceae. Add a note on their delimitation and treatments by different taxonomists
3. Differentiate between the terms normal and abnormal secondary growth. With the help of labelled diagrams, describe the abnormal secondary growth in *Aristolochia* stem.

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COURSE – 04: BIOCHEMISTRY AND PLANT PHYSIOLOGY

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ASSIGNMENT - I

Max.Marks -15

Min.Marks – 06

1. Describe the organisation of biological membranes. Add a note on the functions of membranes.
2. Analyze the roles of enthalpy and entropy in plant biosynthetic process.
3. Give a detailed account on amino acid biosynthesis in plants

ASSIGNMENT - II

Max.Marks -15

Min.Marks – 06

1. Explain the SPAC concept in the context of photosynthesis
2. Differentiate the photophosphorylation and oxidative phosphorylation
3. Analyze the physiological effects of auxins