

Dr. B.R.AMBEDKAR OPEN UNIVERSITY
FACULTY OF SCIENCE
M.Sc. I Year – BOTANY (2022-23)
Course – 01: BIOLOGY AND DIVERSITY OF VIRUSES, BACTERIA AND FUNGI

ASSIGNMENT-I

Max.Marks: 15
Min .Marks 06

SECTION – A
(Marks: 10)

I. Answer any one of the following two questions in about 30 lines.

1. Fungi in Agriculture and forestry
2. Bacteria Economic importance

SECTION – B
(Marks: 5)

II. Answer any one of the following two questions in about 10 lines.

1. Parasexuality..
2. Bio fertilizers.

ASSIGNMENT-II

Max.Marks: 15
Min .Marks: 06

SECTION – A
(Marks: 10)

I. Answer any one of the following two questions in about 30 lines.

1. Discuss in detail the classification of fungi proposed by Ainsworth and add a note on recent trends in classification.
2. Describe in detail different types of nutrition in fungi.

SECTION – B
(Marks: 5)

II. Answer any one of the following two questions in about 10 lines.

1. Write differences between the Gram positive and Gram negative bacteria.
2. Write an account on Nucleoid and Plasmid.

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

ASSIGNMENT-I

Max.Marks: 15

Min .Marks 06

SECTION – A

(Marks: 10)

I. Answer any one of the following two questions in about 30 lines.

1. Write an essay on “life cycles in Algae”.
2. Sporophyte evolution of Bryophyta

SECTION – B

(Marks: 5)

II. Answer any one of the following two questions in about 10 lines.

1. Telome theory.
2. Fossil Pteridophytes

ASSIGNMENT-II

Max.Marks: 15

Min .Marks 06

SECTION – A

(Marks: 10)

I. Answer any one of the following two questions in about 30 lines.

1. Write about the general account of Chlorophyceae
- 2.Heterospory and seed habit

SECTION – B

(Marks : 5)

II. Answer any one of the following two questions in about 10 lines.

1. Economic importance of Diatoms.
2. Thallus organisation in Algae.

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Course – 03: GYMNOSPERMS, TAXONOMY OF ANGIOSPERMS AND ANATOMY

ASSIGNMENT-I

Max.Marks: 15

Min .Marks 06

SECTION – A

(Marks : 10)

I. Answer any one of the following two questions in about 30 lines.

1. Abnormal secondary growth.
2. Conservations of biodiversity.

SECTION – B

(Marks : 5)

II. Answer any one of the following two questions in about 10 lines.

1. Meristamatic tissue
2. *Lyginopteris oldhamia*.

ASSIGNMENT-II

Max.Marks: 15

Min .Marks 06

SECTION – A

(Marks : 10)

I. Answer any one of the following two questions in about 30 lines.

1. Enumerate the general characters of Nympheaceae. Add a note on their delimitation and treatments by different taxonomists
2. ICBN

SECTION – B

(Marks : 5)

II. Answer any one of the following two questions in about 10 lines.

1. Classifications of Linnaeus
2. Distribution patterns of Axial wood Parenchyma.

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COURSE – 04 : BIOCHEMISTRY AND PLANT PHYSIOLOGY

ASSIGNMENT-I

Max.Marks: 15

Min .Marks 06

SECTION – A

(Marks : 10)

I. Answer any one of the following two questions in about 30 lines.

1. Phytohormones.
2. Amino acid biosynthesis in plants.

SECTION – B

(Marks : 5)

II. Answer any one of the following two questions in about 10 lines.

1. Kranz anatomy.
2. SPAC concept.

ASSIGNMENT-II

Max.Marks: 15

Min .Marks 06

SECTION – A

(Marks : 10)

I. Answer any one of the following two questions in about 30 lines.

1. Photosynthesis
2. Write an account on the degradation of Carbohydrates and Proteins during germination

SECTION – B

(Marks : 5)

II. Answer any one of the following two questions in about 10 lines.

1. Vernalisation.
2. Functions of polysaccharides in plants.

