

**Dr. B.R.AMBEDKAR OPEN UNIVERSITY**  
**FACULTY OF SCIENCE**  
**M.Sc. I Year – BOTANY**  
**(2018-19)**

**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. Describe different techniques employed in viral purification.
2. Discuss the chemical composition of fungal cell wall and its significance in Taxonomy.

SECTION – B  
(Marks: 5)

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

1. Explain briefly the structure of TMV.
2. Write an essay on bio fertilisers.

**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. Write an account on gametophores in *Marchantias*. Describe their external and internal structures with the help of labeled diagrams.

**SECTION – B**

(Marks: 5)

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

1. Theories of progressive sterilisation.
2. Modifications of Siphonostele.

**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 an essay on Telome theory. Discuss briefly about its merits and demerits
2. With the help of labelled diagrams, compare the mature sporophytes of *Pellia* and *Anthoceros*.

**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 unicellular forms of 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. Differentiate between the terms normal and abnormal secondary growth. With the help of labelled diagrams, describe the abnormal secondary growth in *Aristolochia* stem.
2. Write an essay on conservations of biodiversity.

SECTION – B

(Marks : 5)

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

1. Classification of meristems basing on position.
2. Anatomy of stem of *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. Write an account of “Hutchinson’s” system of classification. Add a note on its merits and demerits of the system

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. Write an detailed account on the assimilation of sulphur in plants.
2. Give a detailed account on 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. Describe the organisation of biological membranes. Add a note on the functions of membranes.
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.