

Dr.B.R AMBEDKAR OPEN UNIVERSITY
FACULTY OF SCIENCE
DEPARTMENT OF BOTANY
M.SC FIRST YEAR
Course - 1 (Biology and Diversity of viruses, Bacteria
and Fungi)

ASSIGNMENT -1 (2017-2018)

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 briefly the economic importance of Bacteria?
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. Discuss the methods of transmission of plant viruses.

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. Heterothallism.

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Course – 2 (Biology and Diversity of Algae, Bryophyta and Pteridophyta)

ASSIGNMENT -1 (2017-2018)

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 *Marchantia*. Describe their external and internal structures with the help of labelled 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 Siphonosteles.

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 Algae.

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Course – 3 (Gymnosperms, taxonomy of Angiosperms and Anatomy)

ASSIGNMENT -1 (2017-2018)

Max.Marks:15

Min.Mark06

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. Describe the male and female cones in Gnetales.

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 Nymphaeaceae. Add a note on their delimitation and treatments by different taxonomists
2. Define biodiversity? Discuss how Biodiversity is useful to mankind.

SECTION – B

(Marks: 5)

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

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

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**FACULTY OF SCIENCE
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Course - 4 (Biochemistry and Plant physiology)**

ASSIGNMENT-I (2017-2018)

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 a detailed account on the assimilation of sulphur in plants.
2. What is seed dormancy? What are the factors which contribute to it?
How to break seed dormancy.

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.