

**Dr. B. R. AMBEDKAR OPEN UNIVERSITY  
FACULTY OF SCIENCE**

**M.Sc. – I YEAR – BOTANY (2021 – 2022)**

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

**ASSIGNMENT – I**

Maximum Marks – 15

Minimum Marks – 06

**SECTION – A  
(Marks – 10)**

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

1. Describe the Virus replication and Discuss the methods of transmission of plant viruses
2. Write about the fungal species important in industry and Agricultural field

**SECTION – B  
(Marks – 5)**

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

3. Give an account of Parasexuality.
4. Discuss about the chemistry of *Viruses*.

**ASSIGNMENT – II**

Maximum Marks – 15

Minimum Marks – 06

**SECTION – A  
(Marks – 10)**

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

1. Give an account of fungal characters and classification of fungi.
2. Write about bacteria cell structure and reproduction

**SECTION – B  
(Marks – 5)**

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

3. Describe the hormonal basis of heterothallism.
4. What are non  $\beta$ -Lactam antibiotics and how are they different from non  $\beta$ -Lactam antibiotics?

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**COURSE – 02: BIOLOGY & DIVERSITY OF ALGAE, BRYOPHYTA AND  
PTERIDIPHYTA.**

**ASSIGNMENT – I**

Maximum Marks – 15

Minimum Marks – 06

**SECTION – A**

(Marks – 10)

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

1. Write about the general features of Algae with examples?
2. Describe the Sporophyte evolution in Bryophyta?

**SECTION – B**

(Marks – 5)

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

3. Explains the importance of heterospory and seed habit in Pteridophytes .
4. Write briefly about Telome theory.

**ASSIGNMENT – II**

Maximum Marks – 15

Minimum 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. Write an essay on general characters of Bryophytes.

**SECTION – B**

(Marks – 5)

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

3. Write about the economic importance of Algae
4. Describe the external morphology of Fossil Pteridophytes?

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**COURSE – 03: GYMNOSPERMS, TAXONOMY OF ANGIOSPERMS AND  
ANATOMY**

**ASSIGNMENT – I**

Maximum Marks – 15

Minimum Marks – 06

**SECTION – A  
(Marks – 10)**

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

1. Write an account on distribution, General characters of Gymnosperms.
2. Write in detail about Biodiversity and its conservation.

**SECTION – B  
(Marks – 5)**

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

3. Recent trends in Plant taxonomy.
4. Flora and Vegetation of Telangana.

**ASSIGNMENT – II**

Maximum Marks – 15

Minimum Marks – 06

**SECTION – A  
(Marks – 10)**

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

1. ICBN.
2. Systems of classification

**SECTION – B  
(Marks – 5)**

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

3. Herbarium.
4. Wood Anatomy.

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**COURSE – 04: BIOCHEMISTRY AND PLANT PHYSIOLOGY**

**ASSIGNMENT – I**

Maximum Marks – 15  
Minimum Marks – 06

SECTION – A  
(Marks – 10)

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

1. Photosynthesis.
2. Plant growth regulators.

SECTION – B  
(Marks – 5)

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

3. Biosynthesis of amino acids
4. Seed dormancy and germination

**ASSIGNMENT – II**

Maximum Marks – 15  
Minimum Marks – 06

SECTION – A  
(Marks – 10)

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

1. Plant Respiration.
2. Biological membrane and transport.

SECTION – B  
(Marks – 5)

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

3. Principles of thermodynamics.
4. Nitrogen metabolism.