

**Dr.B.R AMBEDKAR OPEN UNIVERSITY**  
**FACULTY OF SCIENCE**  
**DEPARTMENT OF BOTANY**  
**M.SC SECOND YEAR**  
**Course - 5 (Cell biology, Genetics, Biostatistics and Ecology)**

**ASSIGNMENT-I (2017-2018)**

**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 essay on the link between climate change and green house gases.
- 2 Explain the principle of Chi – Square test and its applications.

**SECTION – B**

**(Marks – 5)**

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

- 1 Ex-situ conservation
- 2 Allopolyploids

**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 in detail about the loss of Biodiversity.
- 2 What is the mechanism involved in replication of DNA molecule?

**SECTION – B**

**(Marks – 5)**

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

- 1 Sulphur cycle

2 Standard error

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**M.SC SECOND YEAR**  
**Course – 6 (Medicinal plants and Embryology of Angiosperms)**  
**ASSIGNMENT-I (2017-2018)**

**Maximum Marks – 15**

**Minimum Marks – 06**

**SECTION – A**

**(Marks – 10)**

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

- 1 Why and how to conserve the medicinal plants of India?
- 2 Write an essay on the role of phytochemicals in Modern medicine

**SECTION – B**

**(Marks – 5)**

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

1. AYUSH
2. NPC System

**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 an essay on the application of embryology in Agriculture.
- 2 Describe in brief the concept and scope of Ethno botany.

**SECTION – B**

**(Marks – 5)**

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

- 1 Ruminant endosperm
- 2 Cleavage polyembryony

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**M.SC SECOND YEAR**  
**Course – 7 (Applied Mycology and Plant Pathology)**

**ASSIGNMENT-I (2017-2018)**

**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 briefly on chemical control of plant diseases.
2. Write different bacterial, phytoplasmol and viral diseases in plants.

**SECTION – B**  
**(Marks – 5)**

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

1. Fungi in Bioremediation
2. Advantages and disadvantages of SCP.

**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 an account on Defence structures formed in response to infection by the pathogen.
2. Describe the role of fungi in the detoxification of industrial effluents.

**SECTION – B**  
**(Marks – 5)**

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

1. Secondary infection
2. History of plant pathology in India.

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**M.SC SECOND YEAR**  
**Course - 8 (Plant molecular Biology and**  
**Biotechnology)**

**ASSIGNMENT-I (2017-2018)**

**Maximum Marks –15**

**Minimum Marks – 06**

**SECTION – A**  
**(Marks – 10)**

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

1. Enumerate the differences between genomic and cDNA libraries
2. Discuss about the applications of restriction endonucleases in Biotechnology.

**SECTION – B**  
**(Marks – 5)**

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

1. Eukaryotic polymerases
2. Application of genome study

**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. Define and describe the polymerase chain reaction
2. Write an essay on the eukaryotic transcription

**SECTION – B**  
**(Marks – 5)**

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

- 1 Role of chloroplast genome in evolution
- 2 Risks of cultivation of transgenic plants

