

Dr. B. R. AMBEDKAR OPEN UNIVERSITY

FACULTY OF SCIENCE

M.Sc. – II YEAR – BOTANY

(2021 – 22)

COURSE – 05: CELL BIOLOGY, GENETICS, BIOSTATISTICS & ECOLOGY

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. Chromosomal Aberrations
2. Ecosystem.

SECTION – B

(Marks – 5)

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

3. Mean Variance
4. Environmental pollution

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. Mutations.
2. Biodiversity.

SECTION – B

(Marks – 5)

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

3. Extra nuclear genome
4. Application of Computers in Biology

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COURSE – 06: MEDICINAL PLANTS AND EMBRYOLOGY OF ANGIOSPERMS

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. Ethnobotany
2. Development of Endosperm and Embryo

SECTION – B

(Marks – 5)

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

3. AYUSH
4. Apomixis

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. Application of embryology in Taxonomy, Agriculture.
2. Cultivation and conservation of Medicinal plants.

SECTION – B

(Marks – 5)

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

3. Parthenocarpy
4. Polyembryony

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COURSE – 07: APPLIED MYCOLOGY AND PLANT PATHOLOGY

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. Mushroom Cultivation.
2. Fungi in Biodegradation

SECTION – B

(Marks – 5)

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

3. Edible Mushrooms, Medicinal and nutritional value
4. Mycorrhizae.

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. Host- Pathogen interaction.
2. Fungi in relation to pollution

SECTION – B

(Marks – 5)

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

3. Fungal taxonomy
4. Fungal enzymes.

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COURSE – 08: PLANT MOLECULAR BIOLOGY & BIOTECHNOLOGY

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. Genome organization
2. Restriction endonucleases

SECTION – B

(Marks – 5)

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

3. Cloning vectors
4. Plant genomics

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. Molecular Markers
2. Transgenic plants

SECTION – B

(Marks – 5)

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

3. Plant metabolomics
4. IPR and Bio-safety