

**Govt. M.H. College of Home Science & Science for women, Autonomous
Jabalpur M.P.**

Code No. OBS/401/B/20

M.Sc. IV Semester Main & ATKT Examination September 2020

Subject : - Botany

Paper-I : Plant Cell, Tissue & Organ Culture

Maximum Marks : 35

**Note : Attempt all questions in about 250 to 300 words.
All questions carry equal marks.**

- Q.1 What do you mean by “cellular totipotency”. Discuss the molecular basis of differentiation.**
- Q.2 Describe the method of haploid production in plants using suitable examples.**
- Q.3 What is somatic embryogenesis. Describe different stages of development of somatic embryo.**
- Q.4 Define Somatic hybridization. Explain the various steps involved in the process.**
- Q.5 What is in situ and ex situ conservations? Briefly describe different steps of cryopreservation.**



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Paper-II : BIOTECHNOLOGY AND GENETIC ENGINEERING

Maximum Marks : 35

**Note : Attempt all questions in about 250 to 300 words.
All questions carry equal marks.**

- Q.1 Write notes on-**
(i) Patent
(ii) Scope of biotechnology
- Q.2 Describe construction of genomic and c-DNA libraries ?**
- Q.3 Describe role of Agrobac- terium in genetic engineering ?**
- Q.4 What do you understand by fermentation technology ? Explain fermentor with appropriate diagrams.**
- Q.5 What is micro-array? Describe in detail.**



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Paper-III : ETHNOBOTANY

Maximum Marks : 35

**Note : Attempt all questions in about 250 to 300 words.
All questions carry equal marks.**

- Q.1 Write about the archaeo ethnobotany and Ethnocosmetics.**
- Q.2 Describe the Homeopathic medicines system.**
- Q.3 Give the Ethnobotanical importance of following plants.**
(i) *Allium cepa*
(ii) *Ocimum sanctum*
- Q.4 Write the local name, family , plant part of Ethnobotanical importance of the following plants.**
(i) *Emblica officinalis*
(ii) *Ricinus communis*
(iii) *Cassia fistula*
- Q.5 Give the name of common plants and their parts used in the treatment of following disease.**
(i) Malaria
(ii) Piles
(iii) Leprosy

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Paper-IV : Plant Protection

Maximum Marks : 35

**Note : Attempt all questions in about 250 to 300 words.
All questions carry equal marks.**

- Q.1 Give an account on Insect Pest of Gram, Soyabean and Teak.**
- Q.2 Explain in detail the disease cycle of wilt of Arhar.**
- Q.3 Write about Bunchy Top of Banana and yellow vein mosaic of Bhindi.**
- Q.4 Give a detailed account of cultural methods of plant protection.**
- Q.5 Define the biological control methods of plant protection and explain its significance.**

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