

**SG-16906**

(544) M.Sc. BOTANY (FOURTH SEMESTER)

Examination, June-2024

**Compulsory/Optional**

Paper - I

Plant Cell Tissue and Organ Culture

*Time : Three Hours ] [ Maximum Marks : 80*

*[ Minimum Marks : 29*

**Note :** Answer from both the Section as Directed. The Figures in the right-hand margin indicate marks.

**Section-A**

1. Answer the following very short answer type of questions  $1 \times 10 = 10$

(a) \_\_\_\_\_ is the example of the cell organless which has bounded which single unit membrane

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**(Turn Over)**

**(2)**

- (b) What is Antibody
  - (c) What are plant tissues culture
  - (d) What are cryopreservation
  - (e) What is an artificial seed
  - (f) What is the role of sucrose in plant tissueculture
  - (g) The most suitable measure of central tendency
  - (h) In a series, mean is 10 and median is 12 then mode will be \_\_\_\_\_
  - (i) Which chemical is used in somatic hybridization
  - (j) Who is the father of embryogenesis
2. Answer very precisely and brief in the following:  $2 \times 5 = 10$
- (a) What are the types of Biotechnology
  - (b) What is the main function of paroxysome in the cell

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**(Continued)**

(3)

- (c) What is Totipotency
- (d) What are the advantage of tissue culture plant or micro propagation
- (e) Write a notes on median

**Section-B**

Answer the following detailed.  $12 \times 5 = 60$

3. Describe in detail aim and scope of Biotechnology.

**OR**

Write a short notes on.

- (a) Plasmadesmeta and its role
- (b) Scope and importance of tissues culture <https://www.abvvonline.com>

4. Write a detail notes on Sometric Hybridization and their importance of research.

**OR**

Write a short notes on.

- (a) Micro propagation
- (b) Callus culture

(4)

5. Give a detail notes on clonal propogation and their role of agriculture.

**OR**

Write short notes on.

- (a) Germplasm storage
- (b) Artificial seed

6. Give an account in importance uses measure of central tendencies in Biological research.

**OR**

Calculate arithmetic mean from the following data.

More than- 85 - 70 - 55 - 40 - 25 - 10

No. of Person- 01 04 30 74 94 100

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