

09 DEC 2020

M.Sc. Botany (Life Science)
Semester – III - Theory Examination
Paper – 11: Plant Development and Reproduction

Time: 1.30 Hrs

Subject code: 3688

Total Marks: 42

INSTRUCTIONS: (1) **Draw a labeled diagram** where ever it is necessary.
(2) Attend any **three** Questions out of **four**.
(3) All Questions are of Equal **14 marks**.

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|---------------|-----------------|---|-----------|
| Que. 1 | (A) | Describe the structure of cell wall. | 14 |
| OR | | | |
| Que. 1 | (A) (i) | Describe Tunica-carpus theory of shoot apical meristem. | 07 |
| Que. 1 | (A) (ii) | Describe the organization of Root Apical Meristem. | 07 |
| | | | |
| Que. 2 | (A) | Write a note on Artificial Vegetative Propagation. | 14 |
| OR | | | |
| Que. 2 | (A) (i) | Describe the internal structure of Dicot Leaf. | 07 |
| Que. 2 | (A) (ii) | Describe the xylem structure and its components | 07 |
| | | | |
| Que. 3 | (A) | Describe the structure and function of Embryo Sac. | 14 |
| OR | | | |
| Que. 3 | (A) (i) | Describe the growth and development of pollen. | 07 |
| Que. 3 | (A) (ii) | Describe the structure of Anther wall. | 07 |
| | | | |
| Que. 4 | (A) | Describe the seed dormancy and overcoming of seed dormancy. | 14 |
| OR | | | |
| Que. 4 | (A) (i) | Describe the Reserved food of Endosperm. | 07 |
| Que. 4 | (A) (ii) | Describe the Dynamics of Fruit growth. | 07 |