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21BOT2C7L



Sl. No.

M.Sc. II Semester Degree Examination, Sept./Oct. - 2024

BOTANY

DSC - 7 : Plant Developmental Biology

(NEP)

Time : 3 Hours

Maximum Marks : 70

Note : (i) Answer **any five** of the following.
(ii) Question no. **1** is **Compulsory**.

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| 1. | (a) Explain SAM with neat labelled diagram. | 8 |
| | (b) Vernalization pathway. | 6 |
| 2. | (a) Explain flower formation with diagram. | 8 |
| | (b) Microsporogenesis in Monocot. | 6 |
| 3. | Write short notes on : | |
| | (a) Embryogenesis | 5 |
| | (b) Apomixis | 4 |
| | (c) Development of fruit | 5 |
| 4. | Discuss in detail the plant growth kinetics and different patterns of growth. | 14 |
| 5. | What is molecular interaction in gene network ? Explain databases to study the molecular interaction. | 14 |
| 6. | (a) Leaf initiation and growth. | 8 |
| | (b) Development and functions of Endosperm. | 6 |
| 7. | (a) Discuss in detail the development of seed with diagram. | 10 |
| | (b) Bud dormancy | 4 |
| 8. | (a) What is plant growth kinetics ? Explain any one method of measuring plant growth. | 8 |
| | (b) Write about databases for description of plant structures. | 6 |

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