

Seat No. : _____

JF-102

January-2021

B.Sc., Sem.-III

202 : Botany
(Old Course)

Time : 2 Hours]

[Max. Marks : 50

- Instructions :** (1) All Questions in **Section – I** carry equal marks.
(2) Attempt any **three** questions in **Section – I**.
(3) Question – 9 in **Section – II** is **compulsory**.

Section – I

- | | | |
|----|---|---|
| 1. | (A) Describe anomalous secondary growth in <i>Salvadora</i> stem. | 7 |
| | (B) Describe types of meristems. | 7 |
| 2. | (A) Describe simple tissue. | 7 |
| | (B) Describe secondary growth in Sunflower in root. | 7 |
| 3. | (A) Describe external and internal ecological adaptations of <i>Hydrila</i> . | 7 |
| | (B) Describe soil profile. | 7 |
| 4. | (A) Describe Parasitism. | 7 |
| | (B) Describe Remote sensing. | 7 |
| 5. | (A) Describe <i>Oenothera</i> type embryo sac. | 7 |
| | (B) Describe pollination in <i>Calotropis</i> . | 7 |
| 6. | (A) Describe development of male gametophyte. | 7 |
| | (B) Describe structure of Ovule. | 7 |
| 7. | (A) Describe structure of Dictyosomes. | 7 |
| | (B) Describe structure of Nucleus | 7 |
| 8. | (A) Write a note on Lysosome. | 7 |
| | (B) Describe Endoplasmic reticulum. | 7 |

Section – II

9. Answer in short : (any **eight**)

8

- (i) Name the types of cambium.
 - (ii) Which type of vascular bundles are found in Sunflower stem ?
 - (iii) What is anomalous secondary growth ?
 - (iv) What is periderm ?
 - (v) Define Soil.
 - (vi) What is soil erosion ?
 - (vii) What is Xerophytic plant ?
 - (viii) What is biological clock ?
 - (ix) Give two names of types of Ovule.
 - (x) Define double fertilization.
 - (xi) Define pollination.
 - (xii) Give types of bisporic embryo sac.
 - (xiii) Give types of Ribosomes.
 - (xiv) Give two functions of Dictyosomes.
 - (xv) Give two functions of nucleus.
 - (xvi) Give two functions of cell wall.
-