

B.Sc. (CBCS Pattern) Sem-III
**012A - Botany Paper-I : Reproductive Biology of Angiosperms,
Plant Growth and Development-I**

P. Pages : 2

Time : Three Hours



GUG/W/22/11598

Max. Marks : 50

1. Write note
- a) Polygonum embryo sac. 5
- b) Male gametophyte in Angiosperm 5

OR

Write short notes on-

- c) Bisporic type of embryo sac. 2½
- d) Structure of Ovule 2½
- e) Contrivances of self pollination 2½
- f) Reward for pollination 2½

2. Write note
- a) Process of double fertilization and triple fusion 5
- b) Types of endosperm 5

OR

Write short notes on

- c) Zoochory 2½
- d) Ecological adaptation of seed 2½
- e) Mature dicot embryo 2½
- f) Causes of dormancy 2½

3. Write note
- a) Tropic Movements. 5
- b) Role of Auxin. 5

OR

Write short notes on.

- c) Phase of Growth. 2½
- d) Nastic Movement. 2½
- e) Absciscic acid. 2½
- f) Physiological role of Ethylene. 2½

4. Write note.

- a) Short day and Long Day Plants. 5
- b) Phytochromes. 5

OR

Write short notes on.

- c) Concept of Florigen. 2½
- d) Circadian rhythm. 2½
- e) Senescence. 2½
- f) Abscission. 2½

5. Write on the following in two to three lines **any ten**. 10
(Diagrams are not necessary)

- a) Apocarpus Pistil
- b) Circinotropus ovule
- c) Heterostyle
- d) Secondary dormancy
- e) Cotyledon
- f) Coma
- g) Gibberella fujikuroi
- h) Differentiation
- i) Plant Hormones
- j) Vernalization
- k) Day neutral plants
- l) Abscission layer
