

U.G. 3rd Semester Examination - 2021

BOTANY

[HONOURS]

Course Code : BOT-H-CC-T-07

(Reproductive Biology)

Full Marks : 40

Time : 2½ Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

1. Answer any **five** of the following: 2×5=10
- a) Describe the contribution of W. Hofmeister.
 - b) What is male germ unit?
 - c) What is sporoderm?
 - d) What is cybrid?
 - e) What is obturator?
 - f) What is mixed pollination?
 - g) What is pollinia?
 - h) What is aeropalynology?

2. Distinguish between the following (any **two**): 5×2=10
- a) Pseudomonads and polyads
 - b) Bisporic and tetrasporic megasporogenesis
 - c) Bud pollination and stub pollination
 - d) Melisso palynology and forensic palynology
3. Answer any **two** of the following: 10×2=20
- a) Describe the molecular aspects of floral development.
 - b) Describe with suitable sketch the Polygonum type of megagametogenesis.
 - c) Describe the different methods to overcome self-incompatibility.
 - d) Describe with suitable sketch the structure of mature embryo sac.