

U. G. 4th Semester Examination 2022

BOTANY (Honours)

Paper Code : DC-10

[CBCS]

Full Marks : 25

Time : Two Hours

The figures in the margin indicate full marks.

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

1. Answer *any five* of the following: 1×5=5
 - (i) What is pollen kit?
 - (ii) Define GSI.
 - (iii) Who is the father of Indian plant embryology?
 - (iv) What is pollinia?
 - (v) What is meant by porogamy?
 - (vi) Mention the components of MGU.
 - (vii) Differentiate between protandry and protogyne.
 - (viii) What is ornithochory?

 2. Answer *any four* of the following: 3×4=12
 - (i) Describe the structure of orthotropous ovule.
 - (ii) Give an account of the contrivances for self-pollination.
 - (iii) Write a short note on microsporogenesis.
 - (iv) Write a short note on polarity in pollen structure.
 - (v) Write few advantages and application of apomixis.
 - (vi) How mixed pollination technique is implemented to overcome self-incompatibility.

 3. Answer *any one* of the following: 8×1=8
 - (i) Briefly describe the ABC model of flower development. 8
 - (ii) What is double fertilization? Describe, with diagram, tetrasporic development of embryo sac with suitable example. 2+6
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