



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 5th Semester Examination, 2023-24

BOTACOR11T-BOTANY (CC11)

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

1. Answer **all** the following questions: 1×6 = 6
- Define MGU.
 - What is double Fertilization?
 - What is porogamy?
 - What is the meaning of ruminant endosperm?
 - Write the meaning of self-sterility.
 - What is obturator?
2. Answer any **eight** questions from the following: 3×8 = 24
- What are the components of anther wall? Mention the functions of the tapetum. 1+2
 - Describe the structure of a typical ovule with proper diagram. 3
 - What is NPC system? Mention one of its merit and demerit. 2+1
 - What is adventive polyembryony? Cite an example. 2+1
 - Write in brief about the methods to overcome self-incompatibility. 3
 - Write about three different contrivances for cross pollination. 3
 - Briefly discuss about three different seed dispersal mechanisms with examples. 3
 - Write the distinctive features of Hydrophilous and Entomophilous Flowers. 1 1/2 + 1 1/2
 - What is parasexual hybridization? Mention two of its importance. 2+1
 - Describe orthotropous and amphitropous ovule with schematic diagrams and examples. 3
 - Differentiate between hollow style and solid style of angiosperms with examples. 1 1/2 + 1 1/2
 - Write a brief note on embryo-endosperm relationship. 3
3. Answer any **two** questions from the following: 5×2 = 10
- Describe the embryo development in *Capsella bursa-pastoris* with proper diagram. 3+2
 - Describe the development of nuclear and cellular type of endosperms with diagrams and examples. 2+2+1
 - Give a brief account of apogamy and apospory with examples. 2 1/2 + 2 1/2
 - Define with schematic diagrams and examples of monosporic, and tetrasporic embryo sac. 2 1/2 + 2 1/2

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