K23U 1979

Reg. No. : .....

Name : .....

II Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/ Improvement) Examination, April 2023
(2019 Admission Onwards)
CORE COURSE IN BOTANY/PLANT SCIENCE
2B02BOT/PLS : Reproductive Botany

Time : 3 Hours Max. Marks : 40

***Instruction** : Draw diagrams **wherever** specified.*

PART – A

Objective type questions. Answer **all**. **(4×1=4)**

1. A very thick walled resting spore found in green algae.
   a) Hypnospores b) Zoospores
   c) Chlamydospores d) Autospores
2. The following describes how flowers are divided into mirror image parts.
   a) Floral diagram b) Floral formula
   c) Floral symmetry d) Floral whoris
3. The formation of a plant from a seed (diploid egg) without fertilization.
   a) Apomixis b) Apogamy
   c) Apospory d) None of these
4. The fruit developed from a single flower having numerous free pistils.
   a) Aggregate fruit b) Samara
   c) Multiple fruit d) Berries

PART – B

Short essay questions. Answer **any eight**. **(8×2=16)**

5. What is sub meta-centric chromosome ?
6. What is Placentation ? Name one example.
7. Differentiate anisogamy and oogamy.

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8. Differentiate apospory and parthenocarpy.
9. What are two significance of meiosis ?
10. Differentiate dry dehiscent and schizocarpic fruits.
11. Write down the characters of a monochasial scorpioid cyme.
12. What is Helobial endosperm ?
13. Define palynology ? What is pollen allergy ?
14. What is megasporogenesis ?
15. What is polyembryony ? Write down one significance.
16. What is quincuncial aestivation ?

PART – C

Essay questions. Answer **any four**. **(4×3=12)**

17. Differentiate ascendingly and descendingly imbricate aestivation with examples.
18. Describe haplodiplontic life cycle.
19. Describe Cyathium inflorescence with a diagram.
20. Describe briefly the development of male gametophyte.
21. Describe the different stages of cell cycle.
22. Describe a hesperidium fruit.

PART – D

Long essay questions. Answer **any one**. **(1×8=8)**

23. Explain the different types of inflorescence with suitable examples.
24. Explain the different types of fruits with examples.
25. Explain the stages of meiosis I.

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