



K26U 0839

Reg. No. :

Name :

Second Semester B.Sc. Degree (C.B.C.S.S.-OBE – Supplementary)
Examination, April 2026
(2020 to 2023 Admissions)
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. Spadix inflorescence is seen in
 - a) Ocimum
 - b) Ixora
 - c) Anthurium
 - d) Hibiscus
2. Citrus fruit have
 - a) Axile placentation
 - b) Parietal placentation
 - c) Marginal placentation
 - d) Superficial placentation
3. The fusion of similar gametes are known as
 - a) Anisogamy
 - b) Oogamy
 - c) Apogamy
 - d) Isogamy
4. In mitosis chromosome starts to move to the pole in
 - a) Prophase
 - b) Anaphase
 - c) Telophase
 - d) Metaphase

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PART – B

Short Essay questions. Answer **any eight**.

(8×2=16)

5. What is a lomentum fruit ?
6. What is superficial placentation ?
7. What is metaphase plate ?
8. Draw the labelled diagram of dicot embryo.
9. Why mitosis is called equational division ?
10. Differentiate an aggregate and multiple fruit.
11. Write down two characters of panicle inflorescence.
12. Differentiate cellular and helobial endosperm.
13. Differentiate imbricate and twisted aestivation.
14. What is a bicarpellary syncarpus gynoecium ?
15. What is apogamy ? What is its significance ?
16. Write two economic importances of pollen grains.

PART – C

Essay questions. Answer **any four**.

(4×3=12)

17. Differentiate orthotropous and anatropous ovules with examples.
18. Describe free central and parietal placentation.
19. Describe cell cycle.
20. Distinguish samara and silique.
21. Describe the major events during seed germination.
22. Differentiate endospermous and non-endospermous seeds with example.

PART – D

Long Essay questions. Answer **any one**.

(1×8=8)

23. Explain the structure and types of different endosperms.
24. Explain the different types of placentation seen in plants with diagrams.
25. Explain the different types of racemose, cymose and special types of inflorescence.