



K20U 0455

Reg. No. :

Name :

**II Semester B.Sc. Degree CBCSS (OBE)- Regular Examination, April 2020
(2019 Admission)**

**Core Course in Botany/Plant Science
2B02 BOT/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. Microspore mother cell forms :
a) Pollen sac b) Ovule c) Pollen grains d) Embryo sac
2. Wheat grain is
a) Achene b) Caryopsis c) Nut d) Follicle
3. When stamens are adnate with petals, is called
a) Epipetalous b) Epiphyllous c) Episepalous d) Gynadrous
4. The zigzag development of axis is an example of
a) Umbel b) Helicoid cyme
c) Scorpioid cyme d) Verticillaster

PART – B

Short essay questions. Answer any eight.

(8×2=16)

5. Write a general account of sexual method of spore formation.
6. What are schizocarpic fruits ?
7. Distinguish between Hypogynous flower and Epigynous flower.
8. Classify anthers on the basis of attachment of filament to anther.

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9. What is a Cremocarp ?
10. Differentiate a Syngenesious stamen and Synandrous stamen.
11. Distinguish between Monocot embryo and dicot embryo.
12. Comment on the triploid nature of angiospermic endosperm.
13. Explain exalbuminous and albuminous seeds.
14. What are multiple fruits ? Give example.
15. Briefly explain about Pollen allergy.
16. Flower is a modified shoot. Explain.

PART – C

Essay questions. Answer any four :

(4×3=12)

17. Briefly explain the Prophase I of Meiosis.
18. Write an account of different types of Placentation.
19. Explain the special types of inflorescence with suitable diagrams.
20. Give the detailed structure of a mature anther.
21. What is cell cycle ? Comment on its importance.
22. Write an account on fleshy fruits with suitable diagrams.

PART – D

Long essay questions. Answer any one :

(1×8=8)

23. Write an essay on the events occurring during Mitosis with the help of suitable diagrams.
 24. Describe the different types of Recemose inflorescences in Angiosperms.
 25. Explain the events occurring in Bisporic type of embryosac development with suitable example and diagrams.
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