



K22U 1279

Reg. No. : .....

Name : .....

**II Semester B.Sc. Degree (C.B.C.S.S. – OBE – Regular/Supplementary/  
Improvement) Examination, April 2022  
(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)**

- The ovule is attached to the placenta by a slender stalk known as  
a) Hilum      b) Funicle      c) Nucellus      d) Micropyle
- Chiasmata formation occurs during  
a) Diplotene      b) Leptotene      c) Pachytene      d) Diakinesis
- When stamens are adnate with petals, is called  
a) Epipetalous      b) Epiphyllous      c) Episepalous      d) Gynandrous
- The largest cell of the embryo sac is  
a) Egg      b) Central cell      c) Antipodal      d) Synergid

**PART – B**

Short essay questions. Answer **any eight**.

**(8×2=16)**

- What is nuclear endosperm ?
- What is zygomorphic flower ? Explain with suitable diagrammatic representation.
- Distinguish between Isogamy and Oogamy.
- What is cytokinesis and its significance ?

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- Write an account on types of vegetative reproduction in plants.
- What do you understand by P-tapetum and C-tapetum ?
- What is apospory and polyembryony ?
- Briefly explain about Pollen allergy.
- Write notes on double fertilization.
- What are albuminous seeds ?
- Differentiate porogamy and chalazogamy.
- Classify anthers on the basis of attachment of filament to anther.

**PART – C**

Essay questions. Answer **any four**.

**(4×3=12)**

- Write short note on exine wall formation.
- Write an account on dry fruits with suitable diagrams.
- Explain about different types of life cycles in plants.
- Write a brief note on didynamous and tetradynamous condition of stamens with suitable diagrams.
- What is cell cycle ? Comment on its importance.
- What are the different types of pollination mechanisms in flowers ?

**PART – D**

Long essay questions. Answer **any one**.

**(1×8=8)**

- Write an essay on the events occurring during Meiosis with the help of suitable diagrams.
- Describe the different types of Racemose inflorescences in Angiosperms.
- Write the process of embryo development. Add a note on the nutrition of developing embryo.