

(i) Printed Pages : 3

01/12/2023 04/12/2023
Roll No.

(ii) Questions : 9

Sub. Code :

| | | | |
|---|---|---|---|
| 0 | 2 | 5 | 3 |
|---|---|---|---|

Exam. Code :

| | | | |
|---|---|---|---|
| 0 | 0 | 0 | 3 |
|---|---|---|---|

B.A./B.Sc. (General) 3rd Semester

(2123)

BOTANY

Paper—(A: Diversity of Seed Plants & their Systematics—I)

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— Attempt 5 questions in all. Question 1 is compulsory and is of 8 marks, comprising 4 MCQ & 4 fill in the blanks. Attempt 4 more questions selecting *one* each from units I to IV carrying 7 marks each.

1. (A) Tick the correct answer :

4

(1) Manoxylic wood is found in :

(a) Cycas

(b) Pinus

(c) Ephedra

(d) All

(2) Which Gymnosperm is grown & worshipped in China & Japan ?

(a) Ephedra

(b) Taxus

(c) Araucaria

(d) Ginkgo biloba

(3) Coralloid Roots of Cycas are also known as :

(a) Mycorrhiza

(b) Corallorhiza

(c) Deep feeder

(d) Rhizoidal

(4) Pollination in Gymnosperms is :

- (a) Zoophily (b) Entomophily
(c) Anemophily (d) All

(B) Fill in the Blanks :

4

- (1) Jointed Fir is the common name of Gymnosperm, namely _____.
- (2) Stem and Seeds of which Gymnosperm yields a Starch called _____.
- (3) Longest neck of Archigonia is found in _____.
- (4) Foliage leaves or Needles in Pinus are present on _____.

UNIT—I

2. (a) Write any 2 importances of Cycas, Pinus & Ephedra each. 3
- (b) Write any 4 differences between Gymnosperms & Angiosperms. 4
3. (a) Draw Life Cycle of Gymnosperms showing Alternation of Generation. 5
- (b) Differentiate between Manoxylic & Pycnoxylic wood. 2

UNIT—II

4. (a) Describe any 2 Types of Fossils. 4
- (b) What are the rules for the Nomenclature of Fossils ? 3

5. (a) Describe the Morphology/ Reconstruction of Fossil Plant
Williamsonia. 3
- (b) Describe the Periods & Epochs of Coenozoic Era. 4

UNIT—III

6. (a) Describe the External Morphology of Cycas. 5
- (b) Write a note on Antherozoid of Sago Palm. 2
7. (a) Describe the structure of Ovule in Cycas. 4
- (b) Show the 3 generations found in Cycas seed by making
Diagram. 3

UNIT—IV

8. (a) Write a note on Long & Dwarf shoot of Pinus. 3
- (b) Explain the process of Embryogeny in Pinus. 4
9. (a) Write a short note on the Morphology of Ephedra. 4
- (b) Describe the structure of Archigonium in Ephedra. 3