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Q.P. Code No.31226

Second Semester B.Sc., Degree Examinations

May / June 2026

(CBCS NEP Scheme)

BOTANY

Sub. Code : NSB 0260 : II : DSC – Diversity of Non – Flowering Plants

Time: 2 hrs.] *[Max.Marks : 60*

Instructions to Students :

1. *The students should legibly write Section number along with question numbers within the margin ONLY.*
2. *The answers without Section number and question numbers will not be valued.*
3. *Draw neat and labeled diagram wherever necessary.*
4. *Section – I Multiple Choice Questions should be answered in the First Page of Main answer book and same questions shall not be answered repeatedly.*
5. *Any identifications like marking, ticking, dots etc., in the options of MCQ Questions (SECTION - I) on the question paper is strictly prohibited. Do not write anything (Except Reg. No.) on the question paper.*

SECTION- I

I. *Select the most appropriate answer from options provided :* *10X 1= 10 Marks*

I-1) Fossils are most common in which rock types ?

a) Igneous b) Metamorphic

c) Sedimentary d) all of these

I-2) Example for Red Algae is _____

a) Oedogonium b) Batrachospermum

c) Chara d) Sargassum

I-3) Amphibians of plant kingdom are _____

a) Pteridophytes b) Gymnosperms

c) Angiosperms d) Bryophytes

I-4) Ligule is found in the leaf of _____

a) Selaginella b) Pteris

c) Equisetum d) Salvinia

I-5) Pavement tissue is found in the ovule of _____

a) Pinus b) Gnetum

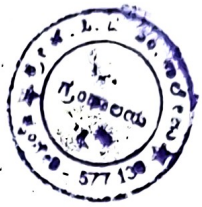
c) Cycas d) None of these

Contd...2

I-6) Cycadeoidea is also known as _____

a) Lyginopteris b) Rhynia

c) Benettites d) Lepidodendron



I-7) In which of these do you find Akinetes ?

a) Nosoc b) Oedogonium

c) Diatoms d) Batrachospermum

I-8) Which plant is commonly called as Hornwort ?

a) Funaria b) Anthoceros

c) Riccia d) Selaginella

I-9) Prothallus represents _____

a) Gametophytic phase in Fern

b) Sporophytic phase in Fern

c) Gametophytic phase in cycas

d) Sporophytic phase in Pinus

I-10) Presence of Needle like leaves in Pinus represents _____

a) Xerophytic characteristics

b) Hydrophytic characteristics

c) Mesophytic characteristics

d) None of these

SECTION- II

II. ***Answer/Write notes on any FIVE of the following.*** *5X 3= 15 Marks*

II-1) Explain Algal Bloooms

II-2) Write a note on Impression & Petrifaction

II-3) Explain the structure of Sporangium in Pteris

II-4) Explain L.S. of Ovule in Pinus.

II-5) Explain T .S. of thallus in Riccia

II-6) Write a note on Archegonium in Pteridophytes.

Contd...3

II-7) Explain morphology of Oedogonium

II-8) Explain Diatom cell.



SECTION- III

III. ***Medium Answer questions.***

Answer any THREE questions from the following. ***3X 5= 15 Marks***

III-1) Explain T.S. of Coralloid root in Cycas.

III-2) Explain Male Flower in Funaria

III-3) Explain male and female conceptacles in Sargassum

III-4) Explain T.S. of Stem in Selaginella

III-5) Explain Heterospory in Pteridophytes.

SECTION- IV

IV. ***Answer the following:*** ***2X 10= 20 Marks***

IV-1) Explain Sexual Reproduction in chara with a neat labelled diagrams.

OR

Explain reproduction in equisetum with a neat labelled diagrams.

IV-2) Write the salient features of Bryophyta.

OR

Explain the L.S. of male cone in Gnetum with a neat labelled diagram and add a note on the structure of male flower.

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