BACHELOR OF SCIENCE (CBCS-2018 COURSE)
T. Y. B. Sc. Sem-VI :SUMMER- 2022
SUBJECT : BOTANY : BIOLOGY OF HIGHER CRYPTOGAMS (BRYOPHYTES & PTERIDOPHYTES)

Day : Saturday
Date : 2/7/2022

S-18478-2022

Time : 11:00 AM-02:00 PM
Max. Marks : 60

N.B.

1) All questions are **COMPULSORY**.
2) Figures to the **RIGHT** indicate **FULL** marks.
3) Draw neat and labelled diagram wherever necessary.

Q.1 Attempt **ANY TWO** of the following : **(12)**

a) Describe sporophyte of *Polytrichum*.
b) Explain structure of *Lepidostobus*.
c) Give classification of Pteridophytes.

Q.2 Attempt **ANY TWO** of the following : **(12)**

a) Explain heterospory and seed habit.
b) Describe stelar evolution.
c) Give classification of Bryophytes.

Q.3 Attempt **ANY TWO** of the following : **(12)**

a) Give economic importance of Bryophytes.
b) Explain internal structure of *Lepidodendron*.
c) Describe synangia in *Psilotum*.

Q.4 Attempt **ANY THREE** of the following : **(12)**

a) Describe sporocarp of *Marsilea*.
b) Explain sporophyte of *Anthoceros*.
c) Describe process of fossil formation.
d) Give characters and significance of Pteridosperms.

Q.5 Attempt **ANY FOUR** of the following : **(12)**

a) Give morphology of *Adiantum*.
b) Explain vegetative reproduction in *Marchantia*.
c) Give morphology of *Lycopodium*.
d) Explain morphology of *Equisetum*.
e) Give characters of *Calamites*.
f) Explain structure of *Lepidocarpon*.

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