

BACHELOR OF SCIENCE (CBCS-2018 COURSE)
T. Y. B. Sc. Sem-VI :SUMMER- 2022
SUBJECT : BOTANY : BIOLOGY OF SEED PLANTS (GYMNOSPERMS &
PALEOBOTANY)

Day : Tuesday
Date : 5/7/2022

S-18479-2022

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 labeled diagram wherever necessary.

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- Q.1** Attempt **ANY TWO** of the following : (12)
- a) Describe coralloid roots of *Cycas*.
 - b) Give structure of pollen grass in *Pinus*.
 - c) Explain importance of gymnosperm as timber.
- Q.2** Attempt **ANY TWO** of the following : (12)
- a) Give external morphology of *Thuja*.
 - b) Describe male cone of *Zamia*.
 - c) Give distribution of gymnosperm in India.
- Q.3** Attempt **ANY TWO** of the following : (12)
- a) Explain structure of ovule in *Cycas*.
 - b) Describe structure of seed in *Gnetum*.
 - c) Describe female cone of the *Pinus*.
- Q.4** Attempt **ANY THREE** of the following : (12)
- a) Explain importance of mycorrhiza in *Pinus*.
 - b) Give external morphology of *Gnetum*.
 - c) Explain the contribution of Birbal Sahani in classification of *Gymnosperm*.
 - d) Describe vegetative reproduction in *Cycas*.
- Q.5** Attempt **ANY FOUR** of the following : (12)
- a) Give affinities of *Gnetum* with angiosperms.
 - b) Explain morphological characters of *Cycadeoidea*.
 - c) Give anatomicus features of *Cycas* leaflet.
 - d) Describe outline of Gymnosperm classification according to Chamberlain.
 - e) Explain *Lepidocarpon* in brief.
 - f) Give process of fossilization.
