

BACHELOR OF SCIENCE (CBCS - 2016 COURSE)
T. Y. B Sc. Sem-VI :SUMMER- 2022
SUBJECT : BOTANY : BIOLOGY OF SEED PLANTS (GYMNOSPERMS &
PALEOBOTANY)

Day : Tuesday
Date : 5/7/2022

S-15062-2022

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** Answer **ANY TWO** of the following : **(12)**
- a) Explain female cone of *Pinus*.
 - b) Describe male cone of *Zamia*.
 - c) Explain classification of Gymnosperms according to Birbal Sahani.
- Q.2** Answer **ANY TWO** of the following : **(12)**
- a) Give external morphology of *Thuja*.
 - b) Explain classification of Gymnosperms according to Chamberlin.
 - c) Describe mycorrhizal roots of *Pinus*.
- Q.3** Answer **ANY TWO** of the following : **(12)**
- a) Explain distribution of gymnosperms in India.
 - b) Give morphological characters of *Cycadeoidea*.
 - c) Describe male cone of *Gnetum*.
- Q.4** Answer **ANY THREE** of the following : **(12)**
- a) Explain megasporophyll of *Cycas*.
 - b) Give affinities of *Gnetum* with angiosperms.
 - c) Describe *Zamia* female cone.
 - d) Give structure of pollen grain in *Pinus*.
- Q.5** Answer **ANY FOUR** of the following : **(12)**
- a) Enlist economic importance of Gymnosperms.
 - b) Give general characters of Gymnosperms.
 - c) Explain coralloid roots in *Cycas*.
 - d) Give xerophytic adaptations in *Cycas* leaflet.
 - e) Enlist general characters of Gymnosperms.
 - f) Give distribution *Pinus* in India.
