

T.Y.B.SC. SEM – VI (2014 Course) : SUMMER - 2019
SUBJECT : BOTANY : BIOLOGY OF SEED PLANTS
(GYMNOSPERMS AND PALEOBOTANY)

Day : Wednesday
Date : 10/04/2019

Time : 03.00 PM To 05.00 PM
Max. Marks : 40

S-2019-1028

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.

Q.1 Attempt **ANY TWO** of the following. **(10)**

- a) Describe affinities of *Gnetum* with Angiosperms.
- b) Give morphological characters of *Cycadeoidea*.
- c) Describe female cone of *Zamia*.

Q.2 Attempt **ANY TWO** of the following. **(10)**

- a) Explain female cone of *Pinus*.
- b) Describe coralloid roots of *Cycas*.
- c) Enlist general characters of Gymnosperms.

Q.3 Attempt **ANY TWO** of the following. **(10)**

- a) Give external morphology of *Thuja*.
- b) Explain pollination in *Cycas*.
- c) Describe male cone of *Gnetum*.

Q.4 Attempt **ANY FIVE** of the following. **(10)**

- a) Give anatomical features of *Cycas* leaflet.
- b) Explain pollination in *Pinus*.
- c) Give distribution of Gymnosperms in India.
- d) Enlist economic importance of Gymnosperms.
- e) Give structure of ovule in *Cycas*.
- f) What is mycorrhizal roots of *Pinus*.
- g) Give types of needles in *Pinus* with suitable examples of species.

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