

**T.Y.B.SC. SEM – VI (CBCS - 2016 Course) : SUMMER - 2019**  
**SUBJECT : BOTANY : BIOLOGY OF SEED PLANTS**  
**(GYMNOSPERMS & PALEOBOTANY)**

Day : Wednesday  
Date : 10/04/2019

**S-2019-0902**

Time : 03.00 P.M. To 06.00 P.M  
Max. Marks : 60

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

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- Q.1** Attempt any **TWO** of the following: (12)
- a) Describe structure of seed in *Gnetum*.
  - b) Explain female cone of the *Pinus*.
  - c) Give distribution of Gymnosperm in India.
- Q.2** Attempt any **TWO** of the following: (12)
- a) Explain female cone of *Zamia*.
  - b) Describe external morphology with characteristic *Thuja*.
  - c) Enlist external morphology of *Gnetum*.
- Q.3** Attempt any **TWO** of the following: (12)
- a) Explain importance of mycorrhiza in *Pinus*.
  - b) Describe pollination in *Cycas*.
  - c) Give morphological character of *Cycadeoidea*.
- Q.4** Attempt any **THREE** of the following: (12)
- a) Give process of *Fossilization*.
  - b) Describe contribution of Chamberlain in *Gymnosperm*.
  - c) Explain morphological characters of *Coralloid roots*.
  - d) Describe male cone of *Gnetum*.
- Q.5** Attempt any **FOUR** of the following: (12)
- a) Give economic importance of *Gymnosperm*.
  - b) Describe types of fossil with suitable examples.
  - c) Describe female cone of *Thuja*.
  - d) Explain megasporophyll of *Cycas*.
  - e) Explain classification of Gymnosperm according to Birbal Sahani.
  - f) Give structure of Pollens grain in *Pinus*

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