

**T.Y.B.SC. SEM – VI (CBCS - 2016 Course) : SUMMER - 2019**

**SUBJECT: BOTANY BIOLOGY OF HIGHER CRYPTOGAMES**

**(Bryophytes & Pteridophytes)**

Day: Monday  
Date: 08/04/2019

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

**S-2019-0897**

**N.B.:**

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

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- Q.1** Attempt any **TWO** of the following: **(12)**
- a) Give external morphology of *Adiantum*.
  - b) Describe *Lepidocarpon* as fossil *Pteridophytes*.
  - c) Explain vegetative reproduction in *Anthoceros*.
- Q.2** Attempt any **TWO** of the following: **(12)**
- a) Explain reproductive structure of *Lycopodium*.
  - b) Describe process of fossil formation in *Pteridophytes*.
  - c) Explain the sporophyte in *Polytrichum*.
- Q.3** Attempt any **TWO** of the following: **(12)**
- a) Give external morphology of *Marchantia*.
  - b) Describe distinguishing significance in *Pteridosperm*.
  - c) Explain stellar evolution in *Pteridophytes* with suitable examples.
- Q.4** Attempt any **THREE** of the following: **(12)**
- a) Describe strobilus of *Equisetum*.
  - b) Give outline of classification in Bryophytes with suitable examples.
  - c) Explain *heterospermy* and seed habit in *Pteridophytes*.
  - d) Give economic importance of Bryophytes.
- Q.5** Attempt any **FOUR** of the following: **(12)**
- a) Describe types of fossil with suitable examples.
  - b) Explain *Telome* theory.
  - c) Describe *Lepidocarpon* in brief.
  - d) Explain sporophyte in *Anthoceros*.
  - e) Describe fossil *Cycadeoidea* in short.

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