

**T.Y.B.SC. SEM – VI (2014 Course) : SUMMER - 2019**  
**SUBJECT : BOTANY: BIOLOGY OF HIGHER CRYPTOGAMES**  
**(BRYOPHYTES AND PTERIDOPHYTES)**

Day : Monday  
Date : 08/04/2019

**S-2019-1023**

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

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**N. B. :**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagram **WHEREVER** necessary.
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**Q. 1** Attempt **ANY TWO** of the following: **(10)**

- a) Give the classification of Pteridophytes as per G. M. Smith.
- b) Explain ecological importance of Bryophytes.
- c) Describe process of fossil formation.

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

- a) Explain seed habit in Pteridophytes.
- b) Describe sporophytes in *Marchantia*.
- c) Give types of fossil with suitable examples.

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

- a) Explain sporophyte in *Marsilea*.
- b) Describe *Lepidodendron* as Fossil Pteridophytes.
- c) Give comparative account of classes in Bryophytes.

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

- a) Give characters of Pteridosperms.
- b) Give any four examples of fossil Pteridophytes.
- c) Give salient features of *Equisetum*.
- d) Enlist species of *Antroceros*.
- e) Give characteristic features of *Polytrichum*.
- f) What is alternation of generation in Pteridophytes?
- g) Describe external structure of *Rhynia*.