

**T.Y.B.SC. SEM – VI (2014 COURSE) : WINTER- 2017**  
**SUBJECT: BOTANY: BIOLOGY OF HIGHER CRYPTOGAMES**  
**(Bryophytes and Pteridophytes)**

Day : Monday  
Date : 23/10/2017

**W-2017-0672**

Time : 12.00 NOON TO 02.00 PM  
Max. Marks: 40.

---

**N.B.:**

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

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

- a) Describe external morphology of *Psilotum*.
- b) Explain the sporophyte in *Anthoceros*.
- c) Describe fossil Pteridophyte as a *Lepidostrobus*.

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

- a) Give classification of Bryophytes as per G. M. Smith.
- b) Explain *Calamites* as a fossil *Pteridophytes*.
- c) Describe male gametophyte in *Polytrichum*.

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

- a) Give process of fossil formation.
- b) Explain stellar evolution in *Pteridophytes*.
- c) Give economic importance of Bryophytes.

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

- a) Enlist salient features of *Pteridophytes*.
- b) What is heterospory?
- c) Define telome theory.
- d) What are fossils?
- e) Give significance of *Pteridosperms*.
- f) Enlist types of fossil.
- g) Give two species of *Rhynia*.

\* \* \*