

**F.Y.B.SC. SEM – I (CBCS - 2016 COURSE) : SUMMER - 2018**

**SUBJECT : BOTANY : PLANT DIVERSITY & UTILIZATION OF PLANTS - I**

Day : **Monday**  
Date : **23/04/2018**

**S-2018-0624**

Time : **11.00 A.M. TO 02.00 PM**  
Max. Marks : 60

**N.B.**

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

**Q.1 A) Choose correct answer from each of the following and rewrite the sentence. (06)**

- 1) In division cyanophyta all algal members are with \_\_\_\_\_ cell.  
a) unicellular b) motile c) prokaryotic d) eukaryotic
- 2) The division phaeophyta is commonly known as \_\_\_\_\_ algae.  
a) red b) brown c) green d) golden brown
- 3) Lichen is association of \_\_\_\_\_ and \_\_\_\_\_.  
a) Plant and animal b) angiosperms and gymnosperms c) algae and fungi d) bryophytes and pteridophytes.
- 4) Fungi are \_\_\_\_\_ in their mode of nutrition.  
a) autotrophic b) saprophytic c) heterotropic d) none of these
- 5) \_\_\_\_\_ members of bryophyte are known as hornworts.  
a) Bryosida b) Pteropsida c) Anthocerotopsida d) Hepaticopsida
- 6) Selginella is classified in \_\_\_\_\_ class.  
a) Psilopsia b) Lycopsida c) Sphenopsida d) Pteropsida

**B) Attempt any THREE of the following: (06)**

- a) Give any two economic importance of bryophyta.
- b) Give classification of algae upto the class.
- c) Give schematic representation of life cycle of *Sargassum*.
- d) Write note on peristome.

**Q.2 Attempt any TWO of the following: (12)**

- a) Describe protonema of *Funaria*.
- b) Describe structure of male and female conceptacle in *Sargassum*.
- c) Give sexual reproduction in *Aspergillus*.

**Q.3 Attempt any TWO of the following: (12)**

- a) Describe in brief thallus structure of Hepaticopsida and Bryopsida.
- b) Explain asexual reproduction in *Aspergillus*.
- c) Describe role of fungi in human welfare.

**Q.4 Answer any TWO of the following: (12)**

- a) Describe sexual reproduction in *Selaginella*.
- b) Explain L.S. of capsule of *Funaria* and give functions of various parts.
- c) What is lichen? Give its form with suitable examples.

**Q.5 Answer any TWO of the following: (12)**

- a) Explain role of algae in agriculture and medicine.
- b) Write salient features of pteridophyta.
- c) Explain V.S. of apothecium with labeled diagram.
- d) Give comparative account of reproductive characters in *Psilotum* and *Adiantum*.
- e) Explain sexual reproduction in *Aspergillus*.