

F.Y.B.SC. SEM – I (CBCS - 2016 Course) : WINTER - 2018

SUBJECT: BOTANY : PLANT DIVERSITY & UTILIZATION OF PLANTS – I

Day: Saturday
Date: 20/10/2018

W-2018-0685

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 and labeled diagrams **WHEREVER** necessary

- Q1. A)** Choose the correct answer from each of the following and rewrite the sentence [06]
1. The name of an alga which helps in nitrogen fixation is -----
a) *Nostoc* b) *Batrachospermum* c) *Chlorella* d) *Sargassum*
 2. The algae in which non- heterocyst filaments are present in ----
a) *Oscillatoria* b) *Nostoc* c) *Anabaena* d) *Gloeothrichia*
 3. Imperfect fungi possess -----
a) *Sexual reproduction* b) *Asexual reproduction*
c) *Budding* d) *Conidia*
 4. The mode of heterotrophic nutrition in *Albugo* is ----
a) Facultative parasite b) Obligate parasite
c) Semi-facultative parasite d) None of the above
 5. In Bryophytes ----
a) Sporophytes are dependent upon gametophytes
b) Gametophytes are dependent upon sporophytes
c) Sporophytes and gametophytes are independent
d) Sporophytes itself completes the life cycle
 6. Heterospory is found in -----
a) *Psilotum* b) *Selaginella* c) *Equisetum* d) *Lycopodium*
- B)** Attempt **ANY THREE** of the following [06]
- a) Give classification of *Sargassum* with reasons
 - b) Write any four general characteristics of Pteridophytes
 - c) Give classification of Bryophyta with reasons
 - d) Write short notes on economic importance of *Agaricus*
- Q2.** Attempt **ANY TWO** of the following [12]
- a) What are Lichens? Explain different types of Lichens
 - b) Explain in detail asexual reproduction in *Aspergillus*
 - c) Explain L.S of capsule in *Funaria*
- Q3.** Attempt **ANY TWO** of the following [12]
- a) What is Heterospory ? Describe heterospory in *Selaginella*
 - b) Give economic importance of algae
 - c) Describe role of Bryophytes in the manufacture of industrial products
- Q4.** Attempt **ANY TWO** of the following [12]
- a) Give comparative account of reproductive structure in *Selaginella* and *Equisetum*
 - b) Describe the structure of cleistothecium in *Aspergillus*
 - c) Give any three characters of Chlorophyta and Rhodophyta
- Q5.** Attempt **ANY TWO** of the following [12]
- a) Describe the characteristics of Hepaticopsida and Anthocerotopsida
 - b) Compare the thallus structure of *Mucor* and *Aspergillus*
 - c) Give economic importance of Lichens

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