

B.Sc. Semester - 1 (CBCS) Examination
Nov./Dec. -2018 (Old Course)
BOTANY (CORE)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Q-1 (A) Answer in very short. (04)
- (i) Name the Shape of chloroplast in Spirogyra.
 - (ii) Give the term: The branches which bear conceptacles in sargassum.
 - (iii) Name the reserve food materials found in the cells of Cynophyta.
 - (iv) Who proposed five kingdom classification?
- (B) Answer in short. (Any One) (02)
- (i) Write two characters of kingdom protista.
 - (ii) Discuss: Algae as a fodder.
- (C) Answer in brief (Any One) (03)
- (i) Explain: Scalariform conjugation in Spirogyra.
 - (ii) Describe the distinguishing features of Chlorophyta.
- (D) Answer in detail. (Any One) (05)
- (i) Which fungi used in production of oxalic acid?
 - (ii) Name sexually produced, non – motile spores of exogenous origin in fungi.
 - (iii) True or False: Mycology is the study of fungi.
 - (iv) Name the class of Mucor.
- Q-2 (A) Answer in very short. (04)
- (i) Which fungi used in production of oxalic acid.
 - (ii) Name sexually produced, non – motile spores of exogenous origin in fungi.
 - (iii) True or False: Mycology is the study of fungi.
 - (iv) Name the class of Mucor.
- (B) Answer in short. (Any One) (02)
- (i) Write the economic importance of fungi as a food.
 - (ii) Explain: Primary mycelium of Agaricus.
- (C) Answer in brief (Any One) (03)
- (i) Explain with diagram: Button stage in Agaricus
 - (ii) Describe the asexual reproductive structure in Mucor.
- (D) Answer in detail. (Any One) (05)
- (i) Describe: Internal structure of gills in Agaricus.
 - (ii) Discuss: Sexual reproduction in Mucor.
- Q-3 (A) Answer in very short. (04)
- (i) Name the various classes of Bryophyta.
 - (ii) What is the name of protective, multi cellular envelope formed from ventral wall around the embryo in Bryophytes?
 - (iii) Fill in the blank: In Riccia, the scales are violaceous colour is due to the presence of _____ Pigments.
 - (iv) How many types of rhizoids are present in Riccia?

- (B) Answer in short. (Any One) (02)
- Write notes on: Scales and rhizoids in *Riccia*.
 - Give the systematic position of *Riccia*.
- (C) Answer in brief (Any One) (03)
- Draw only diagram: V.T.S of *Riccia* thallus.
 - Explain: Vegetative reproduction in *Riccia*.
- (D) Answer in detail. (Any One) (05)
- Explain: The Saprophyte of *Riccia*.
 - Describe characteristic features of class Bryopsida.
- Q-4 (A) Answer in very short. (04)
- Which era in geological time scale is known as ‘age of seed ferns’?
 - True or False: The Sori in *Nephrolepis* are borne on the abaxial surface of the sporophyll.
 - What is the common name of *Nephrolepis*?
 - Fill in the blank: An ebidermal membranous outgrowth covering the sori in *Nephrolepis* is called _____.
- (B) Answer in short. (Any One) (02)
- Explain: Archegonium of *Nephrolepis*.
 - Write notes on: Mesozoic era
- (C) Answer in brief (Any One) (03)
- Write notes on: Hydathode.
 - Describe external morphology of *Nephrolepis*.
- (D) Answer in detail. (Any One) (05)
- Explain: Spore bearing organ in *Nephrolepis* with diagram.
 - Write the characteristic features of Pteridophytes.
- Q-5 (A) Answer in very short. (04)
- In *Gymnosperm*, the endosperm is haploid.
 - In chamberlin classification of *Gymnosperms* is divided in to two divisions. Name it.
 - Name the female reproductive organs in *cycas*.
 - How many integuments are found in the *cycas* ovule?
- (B) Answer in short. (Any One) (02)
- What is transfusion tissue?
 - Write notes on: Pollination in *cycas*.
- (C) Answer in brief (Any One) (03)
- Explain: Characters of division *cycadophyta*.
 - Describe structure of ovule in *cycas*.
- (D) Answer in detail. (Any One) (05)
- Write notes on: Internal structure of leaflet in *Cycas*.
 - Give an illustrated account of the micro sporophyll of *cycas*.
