

B.Sc. Semester - 1 (CBCS) Examination
July-2025 (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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- Que-1(A) Answer in very short. (04)**
- 1) Name the shape of chloroplast in spirogyra.
 - 2) Who proposed five kingdom classification?
 - 3) True or false: In algae sex organs are covered by jacket layer.
 - 4) Give the term: In spirogyra the fusion of two adjacent of the same filaments.
- Que-1(B) Answer in short (Any one) (02)**
- 1) Discuss: Algae as bio-fertilizer.
 - 2) Write two characters of kingdom protista.
- Que-1(C) Answer in brief (Any one) (03)**
- 1) Describe the distinguishing features of chlorophyta.
 - 2) Describe the vegetative structure of the thallus in spirogyra.
- Que-1(D) Answer in detail. (Any one) (05)**
- 1) Give the illustrated account of the male conceptacle of sargassum.
 - 2) Describe the mode of scalariform conjugation in spirogyra.
- Que-2(A) Answer in very short. (04)**
- 1) Fill in the blank: _____ is a thread like structure constituting the mycelium of fungus.
 - 2) Name the sterile part within the sporangium of mucor.
 - 3) Name the fungal tissue composing the pileus or bearing the hymenium of agaricus.
 - 4) Name the fertile layer present on the surface of the gills in Agaricus.
- Que-2(B) Answer in short (Any one) (02)**
- 1) Explain: Primary mycelium of Agaricus.
 - 2) Write the economic importance of fungi as a food.
- Que-2(C) Answer in brief (Any one) (03)**
- 1) Write notes on: Sporangia of mucor.
 - 2) Explain: Fungi in pharmaceuticals.
- Que-2(D) Answer in detail. (Any one) (05)**
- 1) Describe internal structure of gill in Agaricus.
 - 2) Describe the sexual reproduction in mucor.
- Que-3(A) Answer in very short. (04)**
- 1) True or False: In class Bryopsida rhizoids are multicellular, branched with oblique septa.
 - 2) How many antheridia are present in the antherida chamber of Riccia?
 - 3) Fill in the blank: In class bryopsida spores on germination produce _____
 - 4) Which generation is more dominant in the life cycle of bryophytes.
- Que-3(B) Answer in short (Any one) (02)**
- 1) Give the systematic position of Riccia.
 - 2) Write notes on: Rhizoids of Riccia.

- Que-3(C) Answer in brief (Any one) (03)**
- 1) Explain: Vegetative reproduction in Riccia.
 - 2) List the distinctive feature of class Hepeticopsida.
- Que-3(D) Answer in detail. (Any one) (05)**
- 1) Explain: The sporophyte of Riccia.
 - 2) Explain: Male sexual reproductive organ in Riccia.
- Que-4(A) Answer in very short. (04)**
- 1) Fill in the blank: In Nephrolepis, a cluster of sporangia is called _____
 - 2) Which era is known as “age of cycads”.
 - 3) Name the place from where the sporangium opens in Nephrolepis.
 - 4) What is the name given to the sporophyll which bears the sporangium containing smaller spore ?
- Que-4(B) Answer in short (Any one) (02)**
- 1) Write notes on: Mesozoic era.
 - 2) Explain: archegonium of Nephrolepis.
- Que-4(C) Answer in brief (Any one) (03)**
- 1) Describe external morphology of Nephrolepis.
 - 2) Write notes on: hydathode.
- Que-4(D) Answer in detail. (Any one) (05)**
- 1) Describe: spore bearing organ in Nephrolepis with diagram.
 - 2) Describe briefly: write the characteristic features of pteridophytes.
- Que-5(A) Answer in very short. (04)**
- 1) In chamberlin classification of Gymnosperms is divided into two divisions. Name it.
 - 2) Name the female reproductive organs in cycas.
 - 3) How many integuments are found in the cycas ovule ?
 - 4) Name the terminal sterile portion of the microsporophyll of cycas.
- Que-5(B) Answer in short (Any one) (02)**
- 1) Write notes on: pollination in cycas.
 - 2) What is transfusion tissue ?
- Que-5(C) Answer in brief (Any one) (03)**
- 1) Explain: characters of division cycadophyta.
 - 2) Describe structure of ovule in cycas.
- Que-5(D) Answer in detail. (Any one) (05)**
- 1) Give an illustrated account of the microsporophyll of cycas .
 - 2) Explain Important diagnostic feature of Gymnosperms.
