

B.Sc. Semester - 1 (CBCS) Examination
Oct/Nov-2024 (As Per Syllabus Year June-2018)
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) Objective type questions. (04)
- (1) Give the name of five kingdoms given by whittkers classification of living organisms.
 - (2) Fill in the blank: A conceptacle in sargassum is _____
 - (3) Give the term: In spirogyra the fusion of two adjacent cell of the same filaments.
 - (4) Fill in the blank: A motile flagellated asexual cell is _____
- Que.1(B) Answer in brief (Any One) (03)
- (1) Describe the distinguishing features of chlorophyta.
 - (2) Write notes on: Algae as a food.
- Que.1(C) Write a note on (Any One) (07)
- (1) Give a detailed illustrated account of the male conceptacles of sargassum.
 - (2) Describe with labeled diagram: Lateral conjugation in spirogyra.
- Que.2(A) Objective type questions. (04)
- (1) True or false: Mycology means study of fungi.
 - (2) Name dome shape strile portuion of the sporangium in Mucor.
 - (3) Fill in the blank: Reserve food material of fungi is _____
 - (4) Name the fertile layer present on the surface of the gills.
- Que.2(B) Answer in brief (Any One) (03)
- (1) Explain with diagram: Button stage in agaricus.
 - (2) Write the economic importance of fungi as a food.
- Que.2(C) Write a note on (Any One) (07)
- (1) Describe the structure of the basidiocarp in Agaricus with the help of diagram.
 - (2) Describe the vegetative structure and asexual reproduction in mucor.
- Que.3(A) Objective type questions. (04)
- (1) True or false: The sporophyte of Riccia is represented by only capsule.
 - (2) Name the types of Rhizoids in Riccia.
 - (3) What is the dominant phase of the life cycle in bryophytes?
 - (4) Fill in the blank: Members of the class Hepeticopsida are commonly called as _____
- Que.3(B) Answer in brief (Any One) (03)
- (1) Draw neat and labeled diagram: V.T.S. thallus of Riccia passing through antheridial chamber.
 - (2) Explain the sporophyte of Riccia.

- Que.3(C) Write a note on (Any One) (07)
- (1) Describe the internal structure of thallus of Riccia with the help of a diagram.
 - (2) Describe the salient features of Hepaticopsida.
- Que.4(A) Objective type questions. (04)
- (1) Give the name of the structure formed by the germinating Nephrolepis spore.
 - (2) What is the highest unit of time in the geological time table?
 - (3) Fill in the blank: The common name of Nephrolepis is _____
 - (4) True or false: Pteridophytes are also known as vascular cryptogams.
- Que.4(B) Answer in brief (Any One) (03)
- (1) Write notes on: Stolon in Nephrolepis.
 - (2) Write notes on: Scales (Ramenta) in Nephrolepis.
- Que.4(C) Write a note on (Any One) (07)
- (1) Explain: Spore bearing organ in Nephrolepis with diagram.
 - (2) Write the characteristic features of pteridophytes.
- Que.5(A) Objective type questions. (04)
- (1) Which type of ovules are present in cycas?
 - (2) What is arrangement of leaves on the stem of Cycas?
 - (3) Name the terminal sterile portion of the microscopophyll of cycas.
 - (4) Which type of plant is cycas? Monoecious or dioecious?
- Que.5(B) Answer in brief (Any One) (03)
- (1) Explain: Vegetative reproduction through bulbil in cycas.
 - (2) Differences between normal root and coroloid root in cycas.
- Que.5(C) Write a note on (Any One) (07)
- (1) Give an illustrated of the male cone of cycas.
 - (2) With the help of suitable diagrams describe the internal structure of cycas leaflet.
