

B.Sc. Semester - 1 (CBCS) Examination
Jan/Feb.-2022 (NEW COURSE)
BOTANY(CORE)

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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- Q - 1 (A) Answer in short: (04)
- (1) Name the three regions present in *Sargassum* main axis T.S.
 - (2) Give the name of branch which deals with study of algae.
 - (3) Give the name of water soluble biliproteins
 - (4) Which algae are used as single cell protein?
- Q - 1 (B) Answer any one in brief: (03)
- (1) Discuss the five kingdom system's classification.
 - (2) Discuss general characters of Algae.
- Q - 1 (C) Answer any one in detail: (07)
- (1) Describe the sexual reproduction in *Sargassum*.
 - (2) Describe the sexual reproduction in *Spirogyra*.
- Q - 2 (A) Answer in short: (04)
- (1) What is velum?
 - (2) What is dikaryotic mycelium?
 - (3) Define Coenocyte hyphae.
 - (4) *Mucor* belong to class _____
- Q - 2 (B) Answer any one in brief: (03)
- (1) Describe V. S. of *Agaricus* gill
 - (2) Asexual reproduction in *Mucor*
- Q - 2 (C) Answer any one in detail: (07)
- (1) Describe the classification of fungi with it's characteristics of class.
 - (2) Sexual reproduction in *Mucor*.
- Q - 3 (A) Answer in short: (04)
- (1) Which two types of rhizoids present in *Riccia*?
 - (2) Which region is known as Storage Region in Thallus of *Riccia*?
 - (3) When the diploid (2N) condition is observed in *Riccia*?
 - (4) Give the classification of *Riccia*
- Q - 3 (B) Answer any one in brief: (03)
- (1) Discuss the general characters of Bryophytes.
 - (2) Describe the classification of Bryophytes.
- Q - 3 (C) Answer any one in detail: (07)
- (1) Discuss the morphology and anatomy of *Riccia* Thallus
 - (2) Describe sexual reproduction in *Riccia*.
- Q - 4 (A) Answer in short: (04)
- (1) Reduction division in pteridophytes occurs during?
 - (2) Is this seed formation take place in pteridophyte?
 - (3) The first vascular plant on earth is _____
 - (4) Which phase is dominant in Pteridophyte?

- Q - 4 (B) Answer any one in brief: (03)
- (1) Describe the outline of classification of Pteridophytes
 - (2) Describe general characters of Pteridophytes.
- Q - 4 (C) Answer any one in detail: (07)
- (1) Describe T. S. of Lamina of *Nephrolepis* with diagram
 - (2) Describe sexual reproduction in *Nephrolepis*.
- Q - 5 (A) Answer in short: (04)
- (1) Which two types of root system found in *Cycas*?
 - (2) Which two types of leaves found in *Cycas*?
 - (3) Beside parenchyma which other cells present in cortex of *Cycas* root?
 - (4) State the appearance of xylem in *Cycas* stem
- Q - 5 (B) Answer any one in brief: (03)
- (1) Describe the male cone of *Cycas* with diagram.
 - (2) Describe the female cone of *Cycas* with diagram.
- Q - 5 (C) Answer any one in detail: (07)
- (1) Describe the T.S. of *Cycas* Rachis with diagram
 - (2) Describe the T.S. of *Cycas* leaflet with diagram
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