

B.Sc. Semester - 1 (CBCS) Examination
Nov/Dec - 2022 (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) Objective type questions.** **04**
- (1) Who proposed five kingdom classification?
 - (2) Which Algae is commonly known as pond silk?
 - (3) Fill in the blank: The cell wall of algae is made up of _____
 - (4) Fill in the blank: In sargassum, sex organs are produced in cavities called _____
- Q.1 (B) Answer in brief. (Any one)** **02**
- (1) Explain: Algae as a bio-fertilizer.
 - (2) Write two characters of kingdom plantae.
- Q.1 (C) Answer in detail. (Any one)** **03**
- (1) Describe the vegetative structures of the thallus in spirogyra.
 - (2) Describe the distinguishing features of phaeophyta (Brown algae)
- Q.1 (D) Write a note on. (Any one)** **05**
- (1) Describe the mode of scalariform conjugation in spirogyra.
 - (2) Give the illustrated account of the female conceptacle of sargassum.
- Q.2 (A) Objective type questions.** **04**
- (1) Name the hyphae which bears sporangium.
 - (2) Name the scientific term for the fruiting body of ascomycotina.
 - (3) Fill in the blank: The asexual spore are _____ in mucor.
 - (4) True or false: Mycology means study of fungi.
- Q.2 (B) Answer in brief. (Any one)** **02**
- (1) Classify Mucor with reason.
 - (2) Write economic importance of fungi in baking industries.
- Q.2 (C) Answer in detail. (Any one)** **03**
- (1) Write notes on: Sporangia of Mucor.
 - (2) Explain with diagram: Button stage in Agaricus.
- Q.2 (D) Write a note on. (Any one)** **05**
- (1) Give your view: How fungi can be useful to mankind?
 - (2) Describe: Gills in Agaricus.
- Q.3 (A) Objective type questions.** **04**
- (1) Fill in the blank: The rhizoids in Riccia are _____
 - (2) Which generation is more dominant in the life cycle of bryophytes.
 - (3) True or false: The sporophyte of Riccia is represented by only capsule.
 - (4) Fill in the blank: In class bryopsida spores on germination produce _____
- Q.3 (B) Answer in brief. (Any one)** **02**
- (1) Explain the systematic position of Riccia.
 - (2) Mention two important features of sporophytes of Riccia.
- Q.3 (C) Answer in detail. (Any one)** **03**
- (1) Write notes on: Antheridium in Riccia.
 - (2) T.S./V.S. thallus of Riccia.
- Q.3 (D) Write a note on. (Any one)** **05**
- (1) Explain the gametophyte of Riccia.
 - (2) Describe the salient features of Hepaticopsida.

Q.4 (A) Objective type questions.	04
(1) Which era is known as “age of Cycads”	
(2) Fill in the blank: In Nephrolepis, a cluster of sporangia is called_____	
(3) True or false: Pteridophytes are also known as vascular cryptogamous.	
(4) Fill in the blank: Multi cellular prawn hairs found on the rachis of Nephrolepis is called_____	
Q.4 (B) Answer in brief. (Any one)	02
(1) Discuss: Leaves in Nephrolepis.	
(2) Write notes on: Stolon in Nephrolepis.	
Q.4 (C) Answer in detail. (Any one)	03
(1) Describe external morphology of Nephrolepis.	
(2) Give the classification of the genera Nephrolepis.	
Q.4 (D) Write a note on. (Any one)	05
(1) Describe briefly: Importance characters of Pteridophyta.	
(2) Explain: Spore bearing organ in Nephrolepis.	
Q.5 (A) Objective type questions.	04
(1) Which type of plant is cycas? Monoecious or Dioecious.	
(2) Chamberlin (1934) divided the Gymnosperms in to two sub-classes?	
(3) Name the terminal sterile portion of the micro sporophyll of cycas.	
(4) Name the female reproductive organs in cycas.	
Q.5 (B) Answer in brief. (Any one)	02
(1) What is transfusion tissue?	
(2) Write systematic position: cycas.	
Q.5 (C) Answer in detail. (Any one)	03
(1) Explain: Characters of division cycadophyta.	
(2) Explain: Morphology of leaves in cycas.	
Q.5 (D) Write a note on. (Any one)	05
(1) Give an illustrated account of the male cone in cycas.	
(2) Describe: The T.S. of cycas leaflet with diagram.	
