



**JAP-003-0011004** Seat No. \_\_\_\_\_

**B. Sc. (Sem. I) (CBCS) Examination**

**November - 2019**

**Botany : B - 101**

*(Plant Diversity)*

**Faculty Code : 003**

**Subject Code : 0011004**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

- 1 (A) Objective type Questions. All are compulsory : 4
- (1) Define : Horticulture
  - (2) What is parthenospores ?
  - (3) What is assimilatory products of Pheophyta ?
  - (4) Which institute takes up extensive studies on fossils ?
- (B) Answer in brief : (Any One) 2
- (1) Write two characters of kingdom Monera.
  - (2) Give two distinguishing characters of division Euglenophyta.
- (C) Answer in Detail : (Any One) 3
- (1) Explain branches allied to Botany.
  - (2) Describe the vegetative structure of the thallus in Spirogyra.
- (D) Write a note on : (Any One) 5
- (1) Describe: Scalariform conjugation in Spirogyra.
  - (2) Give a detailed illustrated account of the female conceptacles of Sargassum.

- 2 (A) Objective type Questions. All are compulsory : 4
- (1) Give the name of the membranous structure which joins stipe and pileus.
  - (2) What is torula condition?
  - (3) Nuclei of dikaryotic hypha form diploid nucleus, this process is known as?
  - (4) The study of Fungi is called?
- (B) Answer in brief : (Any One) 2
- (1) Explain: Fruiting body of Agaricus
  - (2) What are isogametangia ?
- (C) Answer in Detail : (Any One) 3
- (1) Write note on : Sporangia of Mucor.
  - (2) What are main feature of sub- division Eumycotina ?
- (D) Write a note on : (Any One) 5
- (1) Describe : Asexual reproduction in Mucor.
  - (2) Enumerate important characteristic of Fungi.
- 3 (A) Objective type Questions. All are compulsory : 4
- (1) What is the dominant phase of the life cycle in bryophyte ?
  - (2) Name the types of Rhizoids in Riccia.
  - (3) What is an Anomaly ?
  - (4) Define : Dioecious
- (B) Answer in brief : (Any One) 2
- (1) What are bryophyte ?
  - (2) Mention two important features of sporophytes of Riccia.

- (C) Answer in Detail : (Any One) 3
- (1) Draw labeled diagram of T.S. of Riccia thallus.
  - (2) Describe : Vegetative propagation in Riccia.
- (D) Write a note on : (Any One) 5
- (1) Give a note on distinguishing features of bryophytes.
  - (2) Explain: The sporophyte of Riccia.
- 4 (A) Objective type Questions. All are compulsory : 4
- (1) Define : Leptosporangiate Fern
  - (2) What is circinate vernation
  - (3) When did the vascular plants originate on the earth ?
  - (4) Which era is known as age' of Cycads' ?
- (B) Answer in brief : (Any One) 2
- (1) Discuss : Leaves in Nephrolepis.
  - (2) Describe : the chronology of the geological time table.
- (C) Answer in Detail : (Any One) 3
- (1) Write note on : Hydathode
  - (2) Give only labeled diagram : T.S. of fertile pinna of Nephrolepis.
- (D) Write a note on : (Any One) 5
- (1) Describe with labeled diagram: Nephrolepis Prothallus.
  - (2) Write note on : Characteristic features of Pteridophyte.

- 5 (A) Objective type Questions. All are compulsory : 4
- (1) Explain the term; Gymnosperm
  - (2) Which is the tallest species of Cycas ?
  - (3) Cycas stem is showing type of stele is ?
  - (4) Which type of Cycas root have presence of Algae ?
- (B) Answer in brief : (Any One) 2
- (1) What is transfusion tissue ?
  - (2) Explain: Economic importance of Cycas.
- (C) Answer in Detail : (Any One) 3
- (1) Explain: Morphology of Cycas leaves.
  - (2) Write note on : Microsporophyll of Cycas.
- (D) Write a note on : (Any One) 5
- (1) Write note on: Internal structure of pinna in Cycas.
  - (2) Describe: Internal structure of Cycas Ovule.
-