

B.Sc. Semester - 5 (CBCS) Examination

Oct/Nov. - 2021(Old Course)

CRYPTOGAMIC BOTANY AND PLANT PATHOLOGY(CORE)

Time: 2:30 Hours

Marks: 70

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate marks.

Q.1 Give the answer of the following questions

(A) Answer any one question in detail (any one) (07)

- (1) Write down the reproduction in *Chara* with labelled diagram.
- (2) Describe the evolution of sex in algae in brief.

(B) Attempt any one. (Out of two) (04)

- (1) Explain the vegetative structure of *Coleochetae* with labelled diagram.
- (2) Elaborate the sexual reproduction in *Ectocarpous*.

(C) Attempt any three (Out of Five) (03)

- (1) Explain word " Coenocytic "
- (2) Write down the habitat of *Chara*
- (3) What is Amylum star in *Chara*.
- (4) Which species of *Caulerpa* is edible ?
- (5) Define the papillae.

Q.2 Give the answer of the following questions

(A) Answer any one question in detail (any one) (07)

- (1) Write down the reproduction in *Peziza* with labelled diagram.
- (2) Explain habit, habitat, and symptoms of *Alternaria* with labelled diagram

(B) Attempt any one. (Out of two) (04)

- (1) Describe the vegetative structure of *Alternaria*.
- (2) Elaborate the types of spores in Fungi

(C) Attempt any three (Out of Five) (03)

- (1) *Alternaria* reproduce by sexually and asexually both .True or False ?
- (2) Which type of mode of nutrition present in *Alternaria*.
- (3) Define the word endogenous spores.
- (4) Define the word exogenous spores.
- (5) What is chlamydospore ?

Q.3 Give the answer of the following questions

(A) Answer any one question in detail (any one) (07)

- (1) Describe the sexual reproduction in *Pellia* with labelled diagram
- (2) Explain the morphology and anatomy of *Sphagnum*.

(B) Attempt any one. (Out of two) (04)

- (1) Explain the process of fertilization in *Pellia*.
- (2) Describe the male reproductive structure in *Sphagnum*

(C) Attempt any three (Out of Five) (03)

- (1) _____ is common name of *Sphagnum*
- (2) What is peat ?
- (3) Give one economic importance of *Sphagnum*
- (4) Explain fragmentation in *Pellia*
- (5) Write down the class of *Pellia*

Q.4 Give the answer of the following questions

(A) Answer any one question in detail (any one) (07)

- (1) Describe the structure of *Marsilea* sporocarp with the help suitable diagram.
- (2) Explain the anatomy of stem and leaf in *Ophioglossum*.

(B) Attempt any one. (Out of two) (04)

- (1) Write down the anatomy of petiole of *Marsilea* .
- (2) Explain about fossil : *Lepidodendron*

(C) Attempt any three (Out of Five)

(03)

- (1) What is Adder's tongue ?
- (2) Rhynia is a fossil vascular plant. True or False ?
- (3) Which type of stele was present in *Calamites* ?
- (4) Which type of habitat are suitable for *Marsilea* ?
- (5) *Ophioglossum* belongs to which family?

Q.5 Give the answer of the following questions

A) Answer any one question in detail (any one)

(07)

- (1) Write down general symptoms of diseases in plant with example.
- (2) Explain the Red rot and whip smut of Sugarcane.

(B) Attempt any one. (Out of two)

(04)

- (1) Elaborate the Citrus canker .
- (2) Describe the plant disease control.

(C) Attempt any three (Out of Five)

(03)

- (1) Which type of microorganism causes the Red rot in Sugarcane ?
- (2) Give the name of causes of Tikka disease in Ground nut
- (3) Write two symptoms of leaf curl of Papaya.
- (4) In which type of fruit citrus canker is occur ?
- (5) What do you mean by plant pathology?
