

B.Sc. Semester - 5 (Remedial) (CBCS) Examination
March/April-2022(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.

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- Q.1(A) **Answer in details: (Attempt any one)** (07)
- 1) Give an illustrated account of the Female reproductive organs of Chara.
 - 2) Write a detailed account asexual reproduction in Coleochaete.
- Q.1(B) **Answer in brief: (Attempt any one)** (04)
- 1) Explain: Evolution of sex in algae.
 - 2) Write note on: cell structure Ectocarpus.
- Q.1(C) **Answer in very short: (Any three)** (03)
- 1) What is the name of male sex organ of Chara?
 - 2) What is the source of diatomite?
 - 3) Name the species of Caulerpa growing as epiphytes on the roots of mangroves.
 - 4) Name one species of Coleochaete in which heterotrichous habit is well represented.
 - 5) True or false: In Ectocarpus alternation of generation is isomorphic type.
- Q.2(A) **Answer in details: (Attempt any one)** (07)
- 1) Describe morphology and reproduction in Alternaria.
 - 2) Describe any seven spores of fungi.
- Q.2(B) **Answer in brief: (Attempt any one)** (04)
- 1) Write short notes on: Apothecium of Peziza
 - 2) Write the occurrence of Peziza
- Q.2(C) **Answer in very short: (Any three)** (03)
- 1) What is the nature of the spores formed in ascus?
 - 2) True or False: The conidia of alternaria are multicellular structure.
 - 3) Which fungi have been included in the division deuteromycotina?
 - 4) Fill the blank: Two nuclei of dikaryon fuse to form a diploid nucleus are called.....
 - 5) How many ascospores are produced in ascus of Peziza?
- Q.3(A) **Answer in details: (Attempt any one)** (07)
- 1) Give an account of internal structure of Sphagnum sporophyte.
 - 2) Give illustrated Sex organs of Pellia.
- Q.3(B) **Answer in brief: (Attempt any one)** (04)
- 1) Write a short note: Sporophyte of Pellia
 - 2) Describe the external and internal features of the leaves of Sphagnum.

- Q.3(C) **Answer in very short: (Any three)** (03)
- 1) **True or false:** Sphagnum shows xerophytic features
 - 2) **Fill up the blank:** Archegonia cluster in Pellia is surrounded by.....
 - 3) In which species of Sphagnum, retort cells are present in the main axis?
 - 4) Name one monoecious and protandrous species of Pellia.
 - 5) Name the dominant phase of life cycle of Pellia.
- Q.4(A) **Answer in details: (Attempt any one)** (07)
- 1) Describe the anatomy of Ophioglossum spike
 - 2) Describe the structure of Marsilea sporocarp with the help of suitable diagrams.
- Q.4(B) **Answer in brief: (Attempt any one)** (04)
- 1) Write a short note on: Calamites
 - 2) Describe the Morphology of Lepidodendron.
- Q.4(C) **Answer in very short :(Any three)** (03)
- 1) From which locality Rhynia is discovered?
 - 2) What comes out after the dehiscence of sporocarp of Marsilea?
 - 3) Fill in the blanks: In Ophioglossum, the gametophyte is always.....
 - 4) Name the form genus of underground part of Lepidodendron?
 - 5) True or False: Height of Calamites is only few centimeters.
- Q.5(A) **Answer in details: (ANY ONE)** (07)
- 1) Describe: Citrus Canker
 - 2) Describe the symptoms, causal organism and control of Tikka disease
- Q.5(B) **Answer in brief: (any one)** (04)
- 1) Mention symptoms of leaf curl of Papaya
 - 2) Write controlling measures of Red rot of sugarcane
- Q.5 (C) **Answer in very short: (Any three)** (03)
- 1) Name the organism causing whip smut of sugarcane.
 - 2) What are fungicides?
 - 3) True or False? Crop rotation helps in the control of soil borne diseases.
 - 4) What is the effect of infection on the rate of photosynthesis?
 - 5) Bordeaux mixture is consisting of?
