

B.Sc. Semester - 6 (CBCS) Examination
March/April-2024 (NEW COURSE)
Cryptogamic Botany & Gymno. (Core (New))

Time: 2:30 Hours**Marks: 70****Instructions:**

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

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- Que.1(A) Answer the following objective type questions. (04)
- 1) Is *Ectocarpus* a kelp? Yes/No
 - 2) Which type of the thallus in *Caulerpa*?
 - 3) Which type of the thallus in *Chara*?
 - 4) Define: Anisogamy
- Que.1(B) Answer in brief. (Any one out of two) (03)
- 1) Explain: Vegetative reproduction in *Chara*.
 - 2) Write in brief reproduction in *Ectocarpus*.
- Que.1(C) Write a Note. (Any one out of two) (07)
- 1) Describe general account and economic importance of Diatoms.
 - 2) Explain evolution of sex in algae.
- Que.2(A) Answer the following objective type questions. (04)
- 1) Define torula stage in *Puccinia graminis*.
 - 2) Define Haustoria.
 - 3) What is Plasmogamy?
 - 4) True or False: Teleutospores are unicellular species.
- Que.2(B) Answer in brief. (Any one out of two) (03)
- 1) Explain: Sexual reproduction of *Penicilium*.
 - 2) Explain: Primary and Secondary host of *Puccinia* and their Uredineal stage.
- Que.2(C) Write a Note. (Any one out of two) (07)
- 1) Explain the different type spores in Fungi.
 - 2) Describe physiological heterothallism in Fungi.
- Que.3(A) Answer the following objective type questions. (04)
- 1) Sphagnum belongs to which family?
 - 2) Retort cell occur in (A) *Funaria* (B) *Polygonatum* (C) *Porella* (D) *Sphagnum*
 - 3) True or False: In *Anthoceros* the antheridia develop endogenously.
 - 4) *Anthoceros* has _____ type sexual reproduction.
- Que.3(B) Answer in brief. (Any one out of two) (03)
- 1) Give the reason: Sphagnum is commonly known as peat moss.
 - 2) Write a short note: Mature sex organs of *Anthoceros*.
- Que.3(C) Write a Note. (Any one out of two) (07)
- 1) Give an account of internal structure of Sphagnum sporophyte.
 - 2) Describe: Evolutionary trends of sporophyte.
- Que.4(A) Answer the following objective type questions. (04)
- 1) Which part of *Ephedra* yield ephedrine?
 - 2) What is the name of female cone of *Ephedra*?
 - 3) What is the arrangement of leaves in *Gnetum*?
 - 4) Write any two species of *Marsilea*.
- Que.4(B) Answer in brief. (Any one out of two) (03)
- 1) Describe the external morphology structure of *Gnetum*.
 - 2) Write a short note on external morphology of *Marsilea*.

- Que.4(C) Write a Note. (Any one out of two) (07)
- 1) Describe the male and female strobilus of *Ephedra*.
 - 2) Write internal and external structure of *ophioglossum*.
- Que.5(A) Answer the following objective type questions. (04)
- 1) _____ million years ago *Rhynia* and other plant grew in this locality in marshy environment.
 - 2) Define: Petrification.
 - 3) Where are Calamites found?
 - 4) True or False: Six steles have also been observed by Sahni in *Pentoxylae*.
- Que.5(B) Answer in brief. (Any one out of two) (03)
- 1) Describe with diagram: Cycadeoidea.
 - 2) Explain the stem anatomy of *Lyginodendrone*.
- Que.5(C) Write a Note. (Any one out of two) (07)
- 1) Explain in detail: Types of Fossils
 - 2) Describe morphology and anatomy of *Cordites*.
