

Biyani Girls college ,Jaipur

Model Paper-A (B.Sc. I)

Subject:Botany

Paper : First(Algae,Lichen and Bryophyta)

Max Marks: Max Time: 3 hrs

Q1. Answer the following in short:- 18x0.5= 9 marks

- 1.Name the main photosynthetic pigment found in Cyanophyceae.
- 2.What is the role of diploid Zoospore in Ectocarpus.
- 3.AGAR-AGAR is obtained from_____ and _____ algae.
- 4.Reindeer moss a Lichen ;belongs to the genus_____.
- 5.Fritsch divided algae into_____ classes.
- 6.Lichens growing on rocks are called _____.
- 7.write the name of aquatic sp of Riccia.
8. How many thalli are produced as a result of germination of a gemma.
- 9.In which Bryophyte the Sporophyte consist of capsule only?
- 10._____ algae is found as symbiont in the thallus of Anthoceros?
- 11.Which bryophyte is known as Hornwort?
- 12.The mycobiont in lichens generally belong to class_____.
- 13.give an example of Coenobium.
- 14 Synzoospores are found in _____.
- 15 In which algae Grongosira stage found?
- 16 Name reserve food material of Polysiphoni?
- 17.Give an example of foliose lichens.

18 Lichen growing on the bark of trees is called _____.

Q 2. Describe the types of life cycles in algae? 6 marks

Or

Describe sexual reproduction in Chara? 6 marks

Q 3. Illustrate the outline of classification of algae and important characters of major classes with example as proposed by Fritsch. 6 marks

Or

Write short note on :- 3+3= 6 marks

a) Sexual reproduction in Vaucheria.

b) Economic importance of algae.

Q 4. Describe general characters of bryophyte. 6 marks

Or

Write short notes :- 3+3= 6 marks

a) Alternation of generation in bryophytes.

b) Classification of bryophytes.

Q 5. Describe the structure of Riccia thallus with suitable diagrams. 6 marks

Or

What are lichens? Describe reproduction in lichens. 6 marks

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Model Paper-B (B.Sc. I)

Subject:Botany

Paper : First(Algae,Lichen and Bryophyta)

Max Marks: 33 Max Time: 3:00 hrs

Q1. Answer the following in short:-

- a. Name an alga which is a parasite.
- b. Name any two algae which form bloom in water.
- c. What is the function of pyrenoids and algae?
- d. How many divisions were recognized in algae by Smith?
- e. From which alga agar is obtained?

True/False:

- i. Albugo causes true rust.
- ii. Alternaria causes late blight in potato.
- iii. Peziza is an edible fungi.
- iv. Mitochondria is known as kitchen of plant cell.
- v. Globule is male sex organ of Chara.
- vi. Nostoc is found in thallus of Riccia.

Fill in the blanks:

- A. Lichen growing on rocks are called _____.
- B. _____ is called as Hornwort.
- C. _____ habitat is found in Riccia.
- D. _____ is found as reserve food material in Voucheria.
- E. _____ spore in Puccinia are found in soil.

- F. Operculum is separated from rest of the capsule by _____.
- G. Eleteers help in _____.

2. Describe the important pigments, reserve food and types of sexual reproduction in different classes of algae.

Or

Write short notes on:

- A. Economic importance of algae.
- B. Sexual reproduction in Volvox.

3. describe sexual reproduction in Chara with diagrams.

Or

Short notes on:

- A. Life cycle of Ectocarpus.
- B. Carposporophyte of Polysiphonia.

4. Give general characters of Bryophyta.

Or

Draw diagrams of : i. VS of Riccia thallus. ii. LS of sporophyte of Marchantia

5. Describe with diagram:

- A. LS of sporophyte of Funaria.
- B. VS of thallus of Anthoceros.

Or

Describe different types of lichen? Also add a note on internal structure of Foliose lichen with diagram.