

SSR DEGREE COLLEGE (AUTONOMOUS) NIZAMABAD
M.SC. BOTANY
PG Sem I, Internal II QP
Paper I: Phycology

I. Multiple Choice Questions (MCQs)

1. Sudden excessive growth of algae in water bodies is called a) Algal succession

b) Algal bloom

c) Algal symbiosis

d) Algal alternation

Answer: b) Algal bloom

2. Algal blooms mainly occur due to a) Low nutrients

b) High oxygen content

c) Excess nutrients in water

d) Low temperature

Answer: c) Excess nutrients in water

3. Which algae commonly causes toxic algal blooms? a) Chlorella

b) Nostoc

c) Microcystis

d) Ulva

Answer: c) Microcystis

4. Blue-green algae used as biofertilizers belong to a) Chlorophyceae

b) Rhodophyceae

c) Cyanobacteria

d) Phaeophyceae

Answer: c) Cyanobacteria

5. Which algae fixes atmospheric nitrogen in paddy fields? a) Spirogyra

b) Anabaena

c) Polysiphonia

d) Ectocarpus

Answer: b) Anabaena

6. Algae commonly used as food are a) Laminaria and Sargassum

b) Chlorella and Spirulina

c) Ulothrix and Oedogonium

d) Fucus and Dictyota

Answer: b) Chlorella and Spirulina

7. Agar is obtained from a) Brown algae

b) Green algae

c) Red algae

d) Blue-green algae

Answer: c) Red algae

8. Diatomaceous earth is formed from a) Cellulose walls

b) Silica walls

c) Calcium carbonate walls

d) Protein walls

Answer: b) Silica walls

9. Fossil algae are important because they a) Cause pollution

b) Produce toxins

c) Help in oil exploration

d) Reduce oxygen

Answer: c) Help in oil exploration

10. Economic importance of algae includes a) Food and fertilizers

b) Medicines and agar

c) Biofuel production

d) All of the above

Answer: d) All of the above

II.Fill in the blanks

1. Algal blooms are caused by the rapid multiplication of ____ algae in water bodies.

Answer: phytoplanktonic

2. The toxic algae commonly associated with water pollution belong mainly to the group ____.

Answer: Cyanophyceae (blue-green algae)

3. ____ is an example of Xanthophyceae mentioned in the syllabus.

Answer: Botrydium

4. ____ and ____ are brown algae belonging to Phaeophyceae.

Answer: Laminaria; Sargassum

5. ____ is a red alga used in the commercial production of agar.

Answer: Gracilaria

6. ____ algae are also known as diatoms and possess siliceous cell walls.

Answer: Bacillariophyceae

7. ____ and ____ are examples of Bacillariophyceae listed in the syllabus.

Answer: Navicula; Pinnularia

8. Algae are used as ____ and ____ due to their high nutritional value.

Answer: food; feed

9. Fossil algae deposits are responsible for the formation of ____.

Answer: diatomaceous earth

10. Algal biofertilizers mainly help in the fixation of atmospheric ____.

Answer: nitrogen

III.Descriptive questions

1.a.Write the classification,morphology and life history of laminaria

(Or)

b. Write the classification,morphology and life historyofGracilaria

2. a. Write the economic importance of algae

(Or)

b. Describe about algal blooms and toxic algae