



RAN - 2503000504066001

RAN-2503000504066001 / 2503001304066003

S.Y.B.Sc. (Sem -IV) Examination April - 2025

Microbiology : SEC - Algal Growth and Its Application (Paper - II)

सूचना : / Instructions

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नीचे दशावैल निशानीवाणी विगतो उत्तरवली पर अवश्य लपवनी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

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**Microbiology : SEC - Algal Growth and Its Application
(Paper - II)**

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Seat No.:

Student's Signature

Q.1 Multiple Choice Questions (Any thirteen)

13

- Agar-agar is extracted from which of the following algae?
 - Brown algae
 - Red algae
 - Golden Algae
 - Yellow-Green Algae
- Which class of algae is commonly known as brown algae?
 - Phaeophyceae
 - Chlorophyceae
 - Rhodophyceae
 - Chrysophyceae
- Which medium is used to culture marine algae?
 - Hughes, Gorham and Zehnder's Medium
 - Gaffron's trace element solution Medium
 - Biphasic Soil Water Medium
 - Erdschreiber Medium
- Which type of flagella is described as cylindrical and smooth?
 - Tinsel
 - Ribbon
 - Whiplash
 - Straplike

5. What is the main chemical component of the cell walls in Xanthophytes?
 - a) Peptidoglycan
 - b) Silica
 - c) Chitin
 - d) Glucose & uronic acid
6. What are cysts in Euglena?
 - a) Specialized reproductive cells
 - b) Dormant stages with distinct walls
 - c) Structures for food storage
 - d) Organelles for movement
7. Alginic acid is extracted from which part of the brown algae ?
 - a) Cell wall
 - b) Chloroplasts
 - c) Mitochondria
 - d) Endoplasmic reticulum
8. Carrageenin is extracted from which group of algae?
 - a) Rhodophyceae
 - b) Chlorophyceae
 - c) Phaeophyceae
 - d) Cyanophyceae
9. What is the food made from Porphyra called in Japan?
 - a) Laver
 - b) Sloke
 - c) Luche
 - d) Nori
10. Which of the following algae is used as SCP?
 - a) *Calothrix*
 - b) *Tolypothrix*
 - c) *Spirulina*
 - d) *Scytonema*
11. How are the flagella of Cryptomonads described?
 - a) Equal length
 - b) Non-functional
 - c) Short and rigid
 - d) Equal or slightly Unequal length

12. Which of the following is a luminescent dinoflagellate?
- a) Both Gymnodinium and Noctiluca
 - b) Conyaulox
 - c) Noctiluca
 - d) Gymnodinium
13. Which of the following is blue-green algae?
- a) *Anabaena*
 - b) *Aulosira*
 - c) *Nostoc*
 - d) All of these
14. What is the significance of pyrenoids in green algae?
- a) They store food reserves
 - b) They are a part of the cell wall
 - c) They are involved in light perception
 - d) They assist in reproduction
15. What type of compound is found in Carrageenin in terms of its molecular structure?
- a) A carbohydrate polymer
 - b) A nucleic acid
 - c) A lipid
 - d) A protein
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