Central Tribal University of Andhra Pradesh Semester End Examination – Jan/Feb-2024

Name of the Program: B.Sc. Botany

Name of the Subject: Biodiversity

Subject Code :

Semester: I

Max Time: 3 Hours

Max. Marks: 70

Part-A

Answer all ten questions. Each question carries 1 mark each. $10q \times 1m = 10$

1. Phycology is the study of-

(a) Algae

(b) Fungi

(c) Bryophyte

2. Fusion between gametes of unequal sizes is called-

(a) Anisogamy (b) Oogamy (c) Isogamy (d) Dichogamy

3. The plant in which root, stem and leaf is not differentiated is called.....thallus

4. Reserve food material in Rhodophyceae is-

(a) Glycogen (b) Starch

(c) Mannitol

(d) Floridian starch

5. What is the main function of a bacterial capsule?

6. What color are Gram-negative bacteria?

7. During what phase is bacterial growth the fastest?

8. What is a virion?

9. Are antibiotics used to treat viral infections? No/Yes

10. What is gemma?

Part-B

Answer any four questions. All questions carry 5 marks each. $4q \times 5m = 20$

- 11. Describe the distinctive characteristics of algae.
- 12. How algae differ from fungi?

- 43. Write in short the role of Bryophyta in plant succession.
- 14. How is amphibian nature exhibit in bryophyte?
- 15. Write the Land adaptive features in Preridophyta.
- 16. Give an illustrated account of structure of viruses.

Part-C

Answer either A or B from each question. All questions carry 10 marks each. $4q \times 10m = 40$

17. a) Describe various types of life cycles found in algae.

OR

- b) What are fungi? Classify fungi based on mode of nutrition.
- 18. a) Describe economic significances of Sphagnum with reference to food, peat, horticulture, medicinal, surgical dressings and pollution monitoring.

OR

- b) Give an illustrated account of multiplication of plant viruses.
- a) Describe the structure of bacterial cell and its mode of reproduction.

OR

- b) What is reproduction? Name the different modes of reproduction.
- a) Write explanatory note on the sexual reproduction of Marchantia or any Bryophyte.

OR

 b) Give an illustrated account of the structure and development of the sporophyte of Funeria.