

M. Sc. 1st Semester Examination, 2024

MICROBIOLOGY

(Phycology)

PAPER — MCB-104

Full Marks : 25

Time : 1 hour

Answer all questions

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

GROUP—A

Answer any two questions from the following :

2 × 2

- 1. What are phycobiliproteins ?**
- 2. What are microalgae ? Why they are considered as ideal candidate for biofuel production ?**

(Turn Over)

(2)

3. What is Agar-agar ? Name one alga from which it can be obtained.
4. How do algae fix atmospheric nitrogen ?

GROUP – B

Answer any **two** questions from the following :

4 × 2

5. Write important characteristic features of brown algae.
6. Discuss different processes for large scale cultivation of algae.
7. How can algal biofertilizers improve crop yield ?
8. Write short note on algal pigments.

GROUP – C

Answer any **one** question from the following :

8 × 1

(3)

9. Write the diagnostic characters of diatoms. What is diatomite ? Mention its industrial application. 4 + 2 + 2
10. Discuss about the main parameters used to classify algae. State the important characteristic features of Amoeboids. Name two protozoa that causes human disease. 3 + 3 + 2

[Internal Assessment – 05 Marks]
