

2018
CBCS
1st Semester
MICROBIOLOGY
PAPER—C1T
(Honours)

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

***Introduction to Microbiology
and Microbial Diversity***

Group—A

Answer any *five* questions.

5×2

1. Define viroids.
2. Mention the composition of fungal cell wall and bacterial cell wall.
3. What is Agar? Mention its uses.
4. Write the scientific name of two economically important bacteria and their product.
5. Who is called the father of 'microbial world' and why?
6. Name the classes of fungi as classified by Gwynne-Vaughan and Barnes.

(Turn Over)

7. Name two microalgae.
8. Name one protozoal disease and its causal organism.

Group—B

Answer any *four* questions. 4×5

9. (a) What do you mean by homokaryotic and heterokaryotic mycelium?
- (b) Mention the characteristics of Ascomycetes and point out the difference with Basidiomycetes. 2+3
10. (a) Draw the Diplohaplobiontic life cycle.
- (b) List the major pigments found in Red algae. 3+2
11. Briefly describe the reproduction in viruses.
12. State the contribution of Joseph Lister in the field of microbiology. From which organism Alexander Flemming discovered penicillin? 4+1
13. Distinguish between Ascomycetes and Basidiomycetes.
14. State the economic importance of fungi. 5

Group—C

Answer any *one* question. 1×10

15. (a) Describe the composition of cell wall of Gram positive bacteria.
- (b) Mention the structure of endospore of bacteria. 5+5
16. (a) Write a brief note on thallus organization of algae.
- (b) Classify fungi with class characteristics. 5+5
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