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UG/1st Sem/MICRO(H)/T/19

2019

B.Sc.

1st Semester Examination

MICROBIOLOGY (Honours)

Paper - C 1-T

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *five* questions of the following :

2×5=10

1. What are prions ?
2. Write the systematic position of Giardia.
3. Who discovered penicillin ? Name two species of *Penicillium* from where penicillin can be extracted ?
4. Name two diseases caused by viroids.

[Turn Over]

5. Name two brown algae.
6. Distinguish between homokaryotic and heterokaryotic mycelium.
7. Mention the major pigments present in Blue green algae.
8. Point out the differences between Ascomycetes and Basidiomycetes.

Group - B

Answer any *four* questions of the following :

4×5=20

9. Briefly describe the ultrastructure of fungal cell with diagram. 5
10. What are haplobiontic and diplobiontic life cycles ?
Name two unicellular algae. 3+2
11. State the contribution of Martinus W. Beijerinck and Ele Metchnikof. 5
12. What is SCP ? Name few algal species used as SCP.
Mention the demerits of using such SCP.
13. Name the kingdoms as proposed by Whittakers.
What type of organisms are included in Monera ?

3+2

14. Briefly describe the parasexuality in fungi. 5

Group - C

Answer any *one* question of the following :

10×1=10

15. (i) Differentiate between gram+and gram negative bacteria.
- (ii) Draw and describe the flagella of bacteria. 5+5
16. (a) State the basis of classification of algae as proposed by Fritsch. 5
- (b) Write a short note on heterothallism. 5
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