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(21224)
M.Sc.-I Sem.

Roll No.

PG-1637

M.Sc. Examination, December-2024

MEDICAL MICROBIOLOGY

General Microbiology

(MM-101)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt all the Sections as per instructions.

Section-A

(Very Short Answer Questions)

Note : Attempt all the five questions. 5×2=10

1. Who is called as father of bacteriology? And write its contributions.
2. What are three kingdoms proposed by Haeckel in his classification system?
3. Enlist the general characteristics of eukaryotes.
4. What are Pili?
5. Discuss recombination.

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Section-B

(Short Answer Questions)

Note : Attempt any two out of three questions. 2×5=10

6. What is chemical and biological hazard in microbiology laboratory?
7. Describe a common method used for purification of viruses in a laboratory setting.
8. Explain the structure of bacterial flagella and point out its functions.

Section-C

(Detailed Answer Questions)

Note : Attempt any three questions out of five. 3×10=30

9. Discuss the structure of Bacteriophage and explain the replication cycle of bacteriophages and their application.
10. What is Quality assurance in microbiological laboratories? Explain the significance of document control and record keeping in maintaining quality assurance.

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11. Discuss the types of hospital waste, including the principles of their management.
12. Discuss the process of viral infection and replication in hosts.
13. Write short note on any **two** of the following :
 - (a) Chemical sterilants
 - (b) Bacterial endospores
 - (c) Classification of fungi