(20518) Roll No. R1709351360 26

B. Sc.(Micro.)-I Year

3485

B. Sc. (Micro.) Examination, May 2018

BACTERIOLOGY

(B-102)

Time : Three Hours] *[Maximum Marks : 50*

Note : Answer any *Five* questions. All questions carry equal marks.

1. How does Archaeobacteria differ from Eubacteria ? Compare them with the Cyanobacteria. 10

2. What are Actinomycetes ? Describe their economic importance. 10

3. Describe Mycoplasmas. Explain their structure and give a list of plant diseases caused by them. 10

4. Write notes on the following : 5+5

   (a) Rickettsiae

   (b) Gram-positive and Gram-negative bacteria.

5. Describe the structure of a bacterial cell. Discuss its prokaryotic characters. 10

6. Describe bacterial transformation. Explain Griffith's experiment demonstrating transformation. 10

7. Write notes on the following : 5+5

   (a) Binary fission

   (b) Chemotrophic bacteria.

8. Explain the different types of mode of nutrition found in bacteria. 10

9. Give an account of the types of asexual reproduction in bacteria. Explain the formation of endospore. 10

10. Write notes on the following : 5+5

    (a) Chlamydia

    (b) Fermentation.

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Total Questions : 10] [Printed Pages : 2

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B.Sc. (Micro.) Ist Year Examination, May-2019

BACTERIOLOGY

(B-102)

~~[B.Sc. (Micro)]~~

Time : 3 Hrs.] *[M.M. : 50*

Note :– Attempt any *five* questions. All questions carry equal marks.

1. Describe the structure and importance of archaebacteria.

2. Describe the structure and importance of cyanobacteria.

3. Describe the structure of mycoplasma. Write name of any *two* plant diseases caused by mycoplasma.

4. Explain the different types of mode of nutrition found in bacteria.

5. Write notes on the following :

   (a) Chlamydia

   (b) Differences between gram positive and gram negative bacteria

6. Give an account of conjugation in bacteria, support it with diagrams.

7. Describe different types asexual reproduction in bacteria.

8. Write notes on the following :

   (a) Endospore

   (b) Pili

9. Describe any classification read by you of bacteria.

10. Write notes on the following :

   (a) Actinomycetes

   (b) Rickettsiae