



GN-252

100132

I Semester B.Sc. Examination, December - 2019
(CBCS) (F+R) (Semester Scheme)

MICROBIOLOGY - I
Basic Microbiology

Time : 3 Hours

Max. Marks : 70

- Instructions :** (i) Answer **all** the Sections.
(ii) Draw Diagrams **wherever** necessary.

SECTION - A

I. Write brief notes on the following :

5x2=10

1. Polymyxin
2. Pasteurization
3. Acid fastness
4. Medical Microbiology
5. Magnification

SECTION - B

II. Answer **any four** of the following :

4x5=20

6. Explain sterilization by filtration.
7. What are acidic dyes ? Describe the principle and procedure of negative staining.
8. Describe the 'Paper disc plate method'.
9. Discuss Nalidixic acid as an antibiotic.
10. List the characteristics that qualify antibiotics as chemotherapeutic agents.

SECTION - C

III. Answer **any three** of the following :

3x10=30

11. Explain the working, principle and construction of TEM.
12. Discuss any one cell wall inhibiting and one protein synthesis inhibiting antibiotic.
13. Give an account of Heat as a physical method of sterilization.
14. What is 'Differential Staining' ? Explain the principle and procedure of Gram Staining technique.
15. Discuss the contribution of Antony Von-Leewenhoek, Louis Pasteur and Ivanowski to the field of Microbiology.

P.T.O.



SECTION - D

IV. Answer in one line only :

- 16. Virology
- 17. Photomicrography
- 18. Alexander Fleming
- 19. Oil immersion
- 20. Decolourizer
- 21. TLC
- 22. X - rays
- 23. Antiseptics
- 24. HEPA
- 25. MIC

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