

S.No. 1988

12UMB01

(For the candidates admitted from 2012–2013 onwards)

B.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

First Semester

Microbiology

FUNDAMENTALS OF MICROBIOLOGY

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Biogenesis.
2. Contribution and Fleming.
3. Resolving power.
4. Simple Microscope.
5. Staining.
6. Safranin.
7. Autoclaving.

8. Halogens.
9. Acyclovir.
10. Bacitracin.

PART B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Discuss the Koch postulates.
Or
(b) Give an account on spontaneous generation.
12. (a) Write short notes on dark field microscope.
Or
(b) Describe the principle, working and use of a compound microscope.
13. (a) Give an account on capsular staining.
Or
(b) Discuss the granular staining.
14. (a) Write a short note on Hot air oven.
Or
(b) Give an account on filtration.

15. (a) Write a short note on ampicillin antibiotics and its mode of action.

Or

- (b) Discuss the antibacterial agents.

PART C — (3 × 10 = 30 marks)

Answer any THREE out of Five.

16. Describe the contribution of Leeuwenhoek.
17. Explain in detail the SEM.
18. Write a detailed account on differential staining.
19. Give an account on pasteurization.
20. Give a descriptive account of antimicrobial agents.