



KKD-7107 Seat No. _____

B. Sc. (Sem. - I) Examination
November / December - 2014
MICROBIOLOGY : PAPER: MB 01
Fundamentals of Microbiology
(Core Compulsory)

Time : 3 Hours]

[Total Marks : 70

PART A

10

1. What is the contribution of Antony Van Leeuwenhoek.
2. What is the Magnification power of oil immersion lens?
3. What is the full form of SEM and TEM.
4. What is the temperature of preservation at Liquid Nitrogen ?
5. _____ and _____ are the name of two antiseptics.
6. Define : Sterilization
7. Which type of light is used in Florescence Microscopy? (UV/ Visible/ IR)
8. Who discovered Antibiotics?
9. Which stain is used in negative staining technique?
10. Gamma rays are used for -
Sterilization/ Preservation/ Disinfection.

PART B

Answer any five : **10**

11. Define: Lyophilization.
12. What is the difference between Bright field and Dark field microscopy ?
13. Name two alcohols used as disinfectants.

14. What is the function of condenser and mirror in a microscope?
15. Give names of two pure culture techniques.
16. What is Abiogenesis?
17. Who discovered vaccines?

PART C

Answer any four : **16**

18. Give applications of Microbiology in the field of Industry.
19. Discuss the contribution of various Scientists in Soil Microbiology.
20. Discuss sterilization by moist heat.
21. Name different types of differential media.
22. Name different types of stains.

PART D

Answer Any Four : **16**

23. Applications of Microbiology in the field of Medicine.
24. Differentiate between Simple and Differential staining.
25. Discuss streak plate technique with Diagram.
26. Name different physical agent of sterilization.
27. Define : Isolation, Colony, and Pure culture.

PART E

Answer any three : **18**

28. Discuss various methods of preservation of micro-organisms.
29. Golden Era of Microbiology.
30. Transmission Electron Microscopy.
31. Discuss various types of differential staining techniques.
32. Advantages of Electron microscopy over light microscopy