

D 92850

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Name.....

Reg. No.....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2015

(CUCBCSS-UG)

Core Course

Microbiology

MBY 1B 01—GENERAL MICROBIOLOGY

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer **all** questions.*

1. _____ is the antiseptic used by Joseph Lister.
2. **Peptidoglycan** is also called _____
3. Flaming is an example for _____ ~~heat sterilization.~~
4. Antirabies vaccine was first developed by _____
5. The function of the objective lens in a microscope is _____
6. Capsule of **bacter** can be made up of _____ or _____
7. The outer **proteinaceous** covering of virus is called _____
8. **Inspissation** is a _____ heat method for microbial control.
9. Membrane filters are made up of _____ or _____
10. Cell wall deficient bacteria are called _____
11. Whose findings had lead to discovery of penicillin ?
12. **Rhodamine** is a _____ dye.

(12 x **V2** = 6 marks)

Part B

*Answer **all** questions.*

Comment on :

13. Phase contrast microscopy.
14. Arrangement of bacterial flagella.
15. Grams iodine.
16. **Volutin** granules.
17. Molds.

Turn over

18. Boiling.
19. Theory of biogenesis.
20. Edward **Jenner**.
21. Cold sterilization.
22. Arrangement of bacterial cells.

(10 x 2 = 20 marks)

Part C

Answer any **six** questions.

Write briefly on :

23. Contributions of Lois Pasteur.
24. **Archaeobacteria**.
25. Structure of **bacteriophage**.
26. Koch's postulates.
27. Gram's staining.
28. Phenol coefficient.
29. Differences between prokaryotes and **eukaryotes**.
30. Fluorescent microscopy.

(6 x 5 = 30 marks)

Part D

Answer any **two** questions.

31. Describe moist heat methods for microbial control.
32. Discuss the historical developments in Microbiology.
33. Describe the differential and special staining methods in Microbiology.

(2 x 12 = 24 marks)