

**D 74366**

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Name

Reg. No.....

**FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014**

(CUCBCSS-UG)

Core Course

Microbiology

MB-1B 01—GENERAL MICROBIOLOGY

Time : Three Hours

Maximum : 80 Marks

**Part A**

Answer **all** questions.

1. Who is known as father of Microbiology ?
2. Whose findings led to the development of penicillin ?
3. Who is credited with the first drawing of micro organisms after observing them microscopically ?
4. What is the common name for photosynthetic bacteria ?
5. Auramine is a \_\_\_\_\_ dye.
6. \_\_\_\_\_ bacterial cell wall contain teichoic acid.
7. Capsule can be demonstrated by \_\_\_\_\_ staining using nigrosin.
8. Flagella if arranged all over the body of bacterium, it is called \_\_\_\_\_
9. Bacteria living in extreme environment are grouped in \_\_\_\_\_
10. Robert Koch developed his postulates while studying \_\_\_\_\_ bacilli
11. In HEPA, \_\_\_\_\_ filter is used to make exiting air bacteria free.
12. Who discovered tubercle bacilli ?

(12 x ½ = 6 marks)

**Part B**

Answer **all** questions.

Comment on :

13. Dark field microscopy.
14. Crystal violet.
15. Flaming.
16. Volutin granules.
17. Yeast.
18. Autoclave.

**Turn over**

19. Theory of biogenesis.
20. Joseph Lister.
21. Simple staining.
22. Pili.

(10 x 2 = 20 marks)

**Part C**

*Answer any **six** questions.*

Write briefly on :

23. Contributions of Robert Koch.
24. *Archaeobacteria*.
25. Structure of enveloped virus.
26. Penicillin discovery.
27. *Endospore* staining.
28. Phenol coefficient.
29. Differences between prokaryotes and eukaryotes.
30. Sterilization by radiation.

(6 x 5 = 30 marks)

**Part D**

*Answer any **two** questions.*

31. Describe heat sterilization methods in detail.
32. Discuss the historical developments in Microbiology.
33. Describe the different bacterial forms and their arrangements with diagrams.

(2 x 12 = 24 marks)