

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 $\frac{1}{2}$ = 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)