D 22272 (Pages 2) Name.....

Reg. No.....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, JANUARY 2012

(CCSS)

Microbiology—Core Course

MB 1B 01—GENERAL MICROBIOLOGY

Time : Three Hours **Maximum : 30 Weightage**

Part A

Answer **all** *twelve questions.*

1. Coenocytic hyphae are :
   (a) Non Septate. (b) Septate with uninucleate.
   (c) Septate with Multinucleate. (d) None of these.
2. Who introduced vaccination ?
   (a) Pasteur. (b) Koch.
   (c) Lister. (d) Edward Jenner.
3. Blood agar is ————
   (a) Enriched medium. (b) Transport medium.
   (c) Defined medium. (d) Selective medium.
4. An antifungal antibiotic is :
   (a) Vancomycin. (b) Nystatin.
   (c) Anthramycin. (d) Bacitracin.
5. Name an indicator media.
6. Name an antiviral drug.
7. What is an axenic culture ?
8. Name a biofertilizer.
9. The refractive index of oil is ————
10. The outer membrane of Gram negative cell wall contain ————
11. Bacteria contain ————type of ribosome.
12. Psychrophiles are able to grow at ————temperature.

(12 x ¼ = 3 weightage)

Turn over

Part B

Short answer type questions.
Answer all **nine** *questions.*

13. Explain Koch's postulates.
14. Pure culture techniques.
15. Anaerobic culture media.
16. Principle of Autoclaving.
17. Antimicrobial action of sulphonamide.
18. Principle of Gram staining.
19. Functions of capsule.
20. Archeobacterial cell wall.
21. Contribution of Winogradsky.

(9 x 1 = 9 weightage)

Part C

Short essay or paragraph questions.
Answer any **five** *questions from seven.*

22. Structure and function of Bacterial Endospore.
23. Chemical methods used for sterilization.
24. Contributions of pasteur to the field of Microbiology.
25. Structure and function of flagella.
26. Classify bacteria based on their Morphology.
27. Distinguish between Eukaryotes and Prokaryotes.
28. Brief note on history of Microbiology.

(5 x 2 = 10 weightage)

Part D

Answer any **two** *questions in detail.*

29. Write an essay on antimicrobial chemotherapeutic agents.
30. Describe the structure and function of Bacterial cell wall.
31. Classify media and explain the types of media used in microbiological purpose.

(2 x 4 = 8 weight