D 31892

Name

Reg. No.

SECOND SEMESTER U.G. DEGREE (SUPPLEMENTARY) EXAMINATION DECEMBER 2012

(CCSS)

B.Sc. Biotechnology (Core II)

BT 2B 01—GENERAL MICROBIOLOGY

Maximum: 30 Weightage Time : Three Hours I. Objective type questions. Answer all questions : A. Select the correct answer : 1. Who introduced antisepsis ? (b) Robert Koch. (a) Joseph Lister. (d) Leeuwenhoek. (c) Edward Jonner. 2. The prokaryotic ribosome is made of : (b) 50S and 20S subunits. (a) 50S and 30S subunits. (d) 60S and 30S subunits. (c) 60S and 40S subunits. 3. The chemical nature of capsule is : (b) Polysaccharide. (a) Lipid. (d) Fatty acid. (c) Protein. 4. The bacterial endospore contain : (b) Mycolic acid. (a) Lipolysaccharide. (d) None of the above. (c) Dipicolinic acid. B. Fill in the blanks: 5. Serum can sterilized by <u>method</u>. 6. An enriched and differential medium is ——— 7. Diffusion involving carrier protein is called -8. The cell wall of gram-ye bacteria contain -C. Name the following: 9. The micro-organisms grow at high hydrostatic pressure. 10. Bautoriophage can follow both lytic and lysogenic cycle. The causative agent of typhoid fever. 11. 12. A common media used for isolation of fungi.

 $(12 \text{ x} ^{1})_{4} = 3 \text{ weightage})$

Turn over

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

- 13. Active transport.
- 14. Fermentation.
- 15. AIDS.
- 16. CFU.
- 17. Chemotherapy.
- 18. Tyndallization.
- 19. Peptidoglycan.
- 20. Conidiophone.
- 21. Generation time.

 $(9 \times 1 = 9 \text{ weig})$

- III. Short essay or paragraph questions. Answer any five questions
 - 22. Pure culture techniques.
 - 23. HIV.
 - 24. Bacterial growth curve.
 - 25. Structure of bacteriophage.
 - 26. Factors effecting microbial growth.
 - 27. Immunization.
 - 28. Reproduction of fungi.

IV. Essay questions. Answer any two out of three :

- 29. Explain pentose phosphate path way and its significance.
- 30. Discuss different types of sterilization.
- 31. Describe morphological characters of bacteria and fungi.

 $(2 \times 4 = 8 \text{ weight})$

(5 x 2 = 10 weigh)