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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination - Mar 2013

Time: Three Hours

Max. Marks: 70 Marks

PHARMACEUTICAL MICROBIOLOGY & BIOTECHNOLOGY (Revised Scheme 3)

Q.P. CODE: 2607

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

- 1. Describe the steps involved in the production of Hepatitis B vaccine. What are its safety tests?
- 2. Enumerate various methods involved in identification of bacteria. Write the principles of the immunological methods to identify bacteria.
- 3. What are disinfectants, antiseptics & preservatives? What are the factors affecting disinfection? Add a note on phenol coefficient test.

SHORT ESSAYS (Answer any Six)

- 4. Write notes on plasmid vector.
- 5. Describe the factors effecting bacterial growth and survival.
- 6. Write the characteristics for an ideal sterilizing equipment?
- 7. What are the differences between DNA & RNA?
- 8. Describe different phases of growth curve of bacteria based on total count.
- 9. Enumerate the functions of compliments.
- 10. Describe asexual reproduction in fungi with the help of diagrams.
- 11. Discuss Hybridoma technology to produce monoclonal antibodies.

SHORT ANSWERS

- Write the functions of different components of compound microscope. 12.
- 13. What is Tuberculin test? How it is carried out?
- 14. Define the following: Transduction, Conjugation, epitope, & Intron.
- 15. Principle of the method to carry out sterility testing Benzyl penicillin
- 16. What is the difference between tyndallization & pasteurization techniques?
- 17. Define Enriched media with example
- 18. Write the differences between virulent phage & Temperate phage.
- 19. Name non-ionizing radiations and their applications as sterilizers.
- 20. List four methods of genetic transfer in bacteria.
- 21. Write four important roles played by normal flora of the body.

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2 x 10 = 20 Marks

$6 \times 5 = 30$ Marks

10 x 2 = 20 Marks