

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination – NOV 2016

Time: Three Hours**Max. Marks: 80 Marks**

PHARMACEUTICAL MICROBIOLOGY & BIOTECHNOLOGY (Revised Scheme - 2)

Q.P. CODE: 1957

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

LONG ESSAYS (Answer any Two)**2 x 10 = 20 Marks**

1. Classify Viruses. Explain the morphology and replication of viruses.
2. Explain the principle and procedure for microbiological assay of penicillin.
3. Write the production and applications of monoclonal antibodies.

SHORT ESSAYS (Answer any Eight)**8 x 5 = 40 Marks**

4. Write the production of riboflavin.
5. Explain the cultivation of anaerobic microorganisms.
6. Explain bacterial growth curve.
7. What are sterilization monitors and explain their uses.
8. Write the enzymes involved in recombinant DNA technology.
9. Explain principle and procedure of acid fast staining.
10. Write the production of Hepatitis B vaccine.
11. Legislation concerning use of recombinant DNA based drugs.
12. Bacterial recombination
13. Filtration sterilization

SHORT ANSWERS**10 x 2 = 20 Marks**

14. Southern blot test
15. Cosmids
16. Enriched media
17. Rickettsia
18. Mutations
19. Toxin and Toxoid
20. Widal test
21. Classify antibodies.
22. Application of animal cell culture
23. Immuno-deficiency disorder
