

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.Pharm Degree Examination - 14-Jan-2020

Time: Three Hours**Max. Marks: 70 Marks****INDUSTRIAL PHARMACOGNOSY (RS – 3)****Q.P. CODE: 2620**

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. Discuss in detail WHO Guidelines for the assessment of crude drugs.
2. Describe the various techniques involved in the physically mediated DNA gene transfer in plants.
3. Describe in detail the various processes involved in the isolation of Enzymes.

SHORT ESSAYS (Answer any Six)**6 x 5 = 30 Marks**

4. Discuss the production of secondary metabolites in vitro.
5. Describe the production of Streptokinase.
6. Explain the process of standardization of Vasaka.
7. Mention the various Ayurvedic formulations and discuss the preparation of Bhasma.
8. Explain the process of isolation of Digitoxin.
9. Discuss the source, chemical constituents and uses of Shatavari and Shankhpushpi.
10. Explain the various techniques involved in the immobilization of cells.
11. Give a detailed note on mutation.

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

12. What are Enzyme reactors? Name the different types of Enzyme reactors.
13. Name the Marker compounds of Glycyrrhiza and Vasaka.
14. What are Transgenic plants?
15. Define Arista and Asava. Give examples.
16. Write a note on Soapnut.
17. Define Tissue culture and Callus culture.
18. Write the chemical constituents and uses of Aleovera.
19. Mention the various Alternative systems of medicine.
20. Define Biotransformation.
21. Define Churna and write the method of preparation of Churna.
