

# 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 – 4)****Q.P. CODE: 2645**

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. Explain the method of isolation, identification and estimation of Glycyrrhizin and Podophyllotoxin.
2. Describe the importance of standardization of raw materials, extracts and formulations with examples.
3. What are the objectives of WHO guidelines for quality control of herbs? Explain the procedure and significance to determination of tannin content and mucilage content.

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

4. Give the importance and status of herbal drugs in national and international market.
5. Name the herbs used in skin care preparations. Give the source, uses and significance of Saffron and Sandalwood in skin care preparations.
6. What is herbal patenting? Explain its importance.
7. What is plant tissue culture? Explain the technique and give its uses.
8. What is immobilization? Give its applications and explain the adsorption and entrapment methods of immobilization.
9. Name the various dosage forms of Ayurveda and explain the preparation of Taila.
10. Describe the method of preparation of Aristas and Asavas.
11. Write a brief note on biotransformation using plant cell cultures and enzymes.

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

12. Give source and active constituents of two sweeteners.
13. Give the significance of estimation of microbial content in herbal drugs.
14. Give the uses of hybridization.
15. What are artificial seeds?
16. What is Homeopathy?
17. Give the principle of Unani system.
18. Give the active constituents and uses of Chirata.
19. Give the active constituents and uses of Coleus.
20. Give the source of Punarnava and Rasna.
21. Give the source of Shatavari and Shilajit.

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