Rajiv Gandhi University of Health Sciences, Karnataka
IV Year B.Pharm Degree Examination - JAN 2019

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 Solasodine and Curcumin.

2. Explain the importance of HPTLC & HPLC in evaluation and standardization of herbal drugs. Describe the monographic analysis of Ashwagandha.

3. What are market compound analysis and chromatographic ginger printing? Explain their role in evaluation and standardization.

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

4. Explain the status and scope of herbal drugs and herbal industries.

5. What are Hair care preparations? Explain the role of herbs in hair care preparations with examples.

6. What are the advantages of patenting natural products? Explain with examples.

7. Write a brief note on production of Secondary metabolites from tissue culture.

8. What is immobilization? Describe the different techniques for Immobilization of enzymes.

9. Describe the methods of preparation of Bhasma and Churna.

10. Define and classify Nutraceuticals with examples. Give the source and uses of Spirulina.

11. What are Transgenic plants? Write a note on their applications with examples.

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

12. Name two natural sweeteners and bitters each.

13. Explain the term quality control.

14. Give the methods of improving the quality of medicinal plants.

15. Mention various types of tissue culture techniques.

16. Give the principle of Unani system.

17. Define Aristas & Asavas.

18. Give the source and uses of Pippali.

19. Give the source and uses of Punarnava.

20. Give the chemical constituents of Brahmi and Coleus.

21. Give the chemical constituents of Gudmar and Kantakari.

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