

# Rajiv Gandhi University of Health Sciences, Karnataka

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

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

### **INDUSTRIAL PHARMACOGNOSY** **(Revised Scheme - 2)** **Q.P. CODE: 1970**

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. Discuss in detail Callus culture and Suspension culture.
3. Describe the isolation and estimation of Guggul lipids and Quinine.

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

4. Explain the process of isolation of Cardiac glycosides.
5. Explain the methods for detection and estimation of heavy metals in herbal preparation.
6. Write the source, chemical constituents and uses of Hybiscus and Soapnut.
7. Discuss in detail the Ayurvedic system of medicine.
8. Define Hybridization. Give a detail account on various types of Hybridization.
9. Discuss the Production of Streptokinase.
10. Give the methods of estimation of alcohol content in Arista and Asava.
11. Mention the various Ayurvedic formulations. Add a note on preparation of Bhasma.
12. Discuss the various techniques of immobilization of cells.
13. Give a brief account on industries and institutions involved in work on medicinal plants.

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

14. Microprojectile bombardment
15. Differences between HPLC and HPTLC
16. Kalijeera
17. Ash values
18. Totipotency
19. Lycopodium spore method
20. Source, chemical constituents and uses of Kalmegh.
21. Role of growth hormones in tissue culture
22. Define IPR and Patent.
23. Papaine

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