

# Rajiv Gandhi University of Health Sciences, Karnataka

## Fourth Semester B. Pharm Degree Examination – 13-Jan-2020

**Time: Three Hours****Max. Marks: 75 Marks****PHARMACOGNOSY AND PHYTOCHEMISTRY - I****Q.P. CODE: 5017**

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. What is evaluation? Explain various methods of evaluation briefly.
2. Discuss the factors affecting cultivation of medicinal plants.
3. Define alkaloids. How are they classified? Give examples chemical classification of alkaloids.

**SHORT ESSAYS (Answer any Seven)****7 x 5 = 35 Marks**

4. What are crude drugs? Differentiate between organized and unorganized drugs with examples.
5. Discuss Beeswax under suitable pharmacognostic scheme.
6. What are volatile oils? Classify them with examples and give their properties.
7. Write a note on Hybridization and its applications.
8. Explain growth and maintenance of Plant tissue culture.
9. What are proteolytic enzymes? Discuss preparation of Bromelaine.
10. Discuss the role of cytokinin and abscisic acid in the plant growth regulation.
11. What is adulteration? Discuss the methods of adulteration.
12. Give a detail description of types of plant tissue culture.

**SHORT ANSWERS (Answer All)****10 x 2 = 20 Marks**

13. What are proteins? Give any one general test for proteins.
14. State 'Wuxing' (Five elements in Chinese system of Medicine).
15. Describe Keller Killiani test.
16. State functions of Ethylene.
17. Define and classify allergens.
18. Give any two marine anticancer drugs give their botanical sources.
19. Give the general structure of Cardenolides from Bufadienolides.
20. Define budding and layering.
21. What are edible vaccines? Give examples.
22. Enlist various drying methods for crude drugs.

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