

Rajiv Gandhi University of Health Sciences, Karnataka

Fourth Semester B. Pharm Degree Examination – 25-Nov-2021

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
All the Questions are compulsory.

LONG ESSAYS

2 x 10 = 20 Marks

1. Explain history, scope and development of Pharmacognosy.
OR
Define plant tissue culture. Explain lab requirements and general method involved in plant tissue culture.
2. Define cultivation. Explain various factors affecting cultivation.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Explain drying methods of crude drugs.
OR
Explain modern pharmacognosy.
4. Explain callus culture.
OR
Explain plant growth regulators in plant tissue culture.
5. Explain the principle involved in Ayurveda and Homoeopathy.
6. Define Tannins. Classify them with examples. Give the chemical tests for Tannins.
7. Explain Pepsin and Gelatin.
8. Explain about natural allergens.
9. Explain various methods of analysis of Proteins and Fats.

SHORT ANSWERS

10 x 2 = 20 Marks

10. Write chemical tests for Tragacanth.
11. Explain method of production of Urokinase.
12. Write source and adulterants of Honey.
13. Write general tests for Alkaloids.
14. Explain the terms : a) Totipotency b) Synthetic seed
15. Write the applications of plant tissue culture.
16. Define Polyploidy and mutation.
17. Write the functions of Trichomes and Stomata.
18. Define Stomatal number and Stomatal Index.
19. Enlist chemical properties of Glycosides.
