

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 22

B.Pharma (2017 Batch) (Sem.-5)
PHARMACOGNOSY AND PHYTOCHEMISTRY II-THEORY
Subject Code : BP504T
M.Code : 76789

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A

Write briefly :

1. Write down biological source and uses of CLOVE.
2. Give structure and identification tests of PODOPHYLLOTOXIN.
3. Write down principle of Microwave-assisted Extraction.
4. Give utilization of VINCRISTINE and VINBLASTINE.
5. Write down biological source and chemical constituents of RUTA.
6. Give biological source and commercial applications of GUGGAL.
7. Write applications of Droplet Counter Current Chromatography.
8. Describe steps of biosynthesis of Shikimic acid from Erythrose-4 phosphate and Phosphoenolpyruvic acid.
9. Describe method of identification of ARTEMISIN.
10. Discuss method of estimation of ATROPINE.

SECTION-B

11. Describe Acetate Mevalonate pathway in the biosynthesis of various secondary metabolites.
12. Explain method of isolation, identification and analysis of GLYCYRHETINIC ACID.
13. Describe method of industrial production, estimation and utilization of FORSKOLIN.

SECTION-C

14. Write down biological source, chemical constituents and therapeutic uses of OPIUM and DIGITALIS.
15. Describe principle and applications of Ultrasonic Extraction.
16. Write down applications of Spectroscopy in identification of crude drugs.
17. Discuss radioactive isotopes in investigation of biogenetic pathway.
18. Write a detailed note on CAROTENOIDS.
19. Explain method of isolation and identification of CAFFEINE.
20. Write down biological source, chemical constituents and therapeutic uses of GINGER and PTEROCARPUS.
21. Describe method of industrial production and uses of DIOSGENIN.
22. Give a detailed pharmacognostic account on SENNA.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.