

Total No. of Questions - 13] [Total No. of Printed Pages - 2]

DEC-23-0082

BP-504 T (Pharmacognosy and Phytochemistry-II)

B.Pharm-5th (PCI)

Time : 3 Hours

Max. Marks : 75

Note: The questions paper contains three section I, II, III, Section I is compulsory. Attempt any two questions from section II and attempt any seven questions from section III.

SECTION-I

Short Answer (Compulsory)

1. Attempt all questions (10×2=20)
 - a) Define the Alkaloids.
 - b) What are secondary metabolites?
 - c) Write biological source and use of Opium.
 - d) Write two therapeutic uses of Rauwolfia.
 - e) Name the chemical constituents presents in Dioscorea.
 - f) What are glycosides?
 - g) Write therapeutic uses of Senna.
 - h) Write biological source of Taxus and Guggul.
 - i) Write one identification test of Curcumin.
 - j) Enlist uses of Vincristine.

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SECTION-II

Long Answer (Any Two)

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2. Explain Shikimic acid pathway and formation of secondary metabolites. (10)
3. Write brief about Biosource, chemical constituents and uses of following herbal drugs :- (2×5=10)
 - a. Vinca
 - b. Digitalis
4. Discuss various spectroscopy methods used in identifications of crude drugs. (10)

SECTION-III

(7×5=35)

Short Note Answer (Any Seven)

5. Describe utilization of radioactive isotopes in biogentic investigation studies. (5)
6. Write short note on Liquorice. (5)
7. What are volatile oils and describe volatile oils presents in Mentha? (5)
8. Define resin and write elaborate note on Ginger resins. (5)
9. Discuss chemical constituents and medicinal uses of Artemisia. (5)
10. Explain isolation and identification methods of Atropine. (5)
11. Write a short note Podophylotoxin. (5)
12. Explain modern methods of extraction. (5)
13. What are tannins and write a brief note catechu? (5)