



B. PHARM.
FIFTH SEMESTER
PHARMACOGNOSY & PHYTOCHEMISTRY-II
BP504T
[USE OMR FOR OBJECTIVE PART]

Duration : 3 hrs.

Full Marks : 75

Time : 30 min.

Marks : 20

$$1 \times 20 = 20$$

Choose the correct answer from the following:

1. Vincristine & vinblastine belongs to which species?
a. Catharanthus roseus b. Curcuma longa
c. Thea sinensis d. Artemisia annua
2. Shinoda test is done for?
a. Atropine b. Reserpine
c. Rutin d. Caffeine
3. Curcumin are compounds obtained from?
a. Leaves b. Bark
c. Stolons d. Rhizomes
4. Reserpine is used to treat?
a. High blood pressure b. Ovarian cancer
c. Osteoporosis d. Kidney Stones
5. Coleous forskolii belongs to which family?
a. Rubiaceae b. Tamiaceae
c. Apocynacea d. Leguminoseae
6. Sennoside is a
a. Resin b. Alkaloid
c. Tannin d. Glycoside
7. Podophyllotoxin is a
a. Resin b. Alkaloid
c. Glycoside d. Flavonoid
8. Digoxin is a
a. Anthraquinone glycoside b. Cardiac glycoside
c. Bitter glycoside d. Alkaloid
9. Atropine is identified by which chemical test
a. Lead acetate test b. Shinoda Test
c. Vitalin Morin test d. Murexide Test

(PART-B: Descriptive)

Time : 2 hrs. 30 min.

Marks : 35

[Answer any seven (7) questions]

1. Write down the different steps involved in radioactive tracer technique? 5
2. Describe the applications of Chromatographic techniques in Pharmacognosy? 5
3. Explain the Soxhlet Extraction Technique with Diagram? 5
4. What is Rf Value? Explain the Differences between Paper Chromatography and Thin Layer Chromatography? 5
5. Explain Column Chromatography with diagram. 5
6. Write down the synonym, biological source, chemical constituents and uses of Digitalis. 5
7. Write down the biological source, analysis, properties and uses Menthol. 5
8. Write down the biological source, analysis, properties and uses Curcumin. 5
9. Write down the biological source with structure, estimation and utilization of Forskolin 5

[PART-C : Long type questions]

[Answer any two (2) questions]

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| 1. Elaborate Shikimic acid pathway with complete chemical reaction along with its significance in the biosynthesis of secondary metabolites. | 10 |
| 2. Write Detail note on Quinine. | 10 |
| 3. What are Alkaloids? Write down the synonym, bioresource, chemical constituents, therapeutic uses and commercial applications of Belladonna, Rauwolfia and Vinca. | 10 |

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