

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

Duration : 3 hrs.

Full Marks : 75

Time : 30 min.

Marks : 20

Choose the correct answer from the following:

$$1 \times 20 = 20$$



10. Shikimic-3-Phosphate is coupled with..... to form 5-enol pyruvyl shikimate-3-phosphate.
a. Chorismic acid
c. Phosphoenol pyruvate

b. Prephanic acid
d. 3-dehydroquinic acid

11. Atropine is identified by which chemical test
a. Lead acetate test
c. Vitalin Morin test

b. Shinoda Test
d. Murexide Test

12. Thallazine test is done for?
a. Podophyllotoxin
c. Curcumin

b. Quinine
d. Atropine

13. Shinoda test is done for?
a. Atropine
c. Rutin

b. Reserpine
d. Caffeine

14. Curcumin are compounds obtained from?
a. Leaves
c. Stolons

b. Bark
d. Rhizomes

15. Reserpine is used to treat?
a. High blood pressure
c. Osteoporosis

b. Ovarian cancer
d. Kidney Stones

16. Podophyllotoxin is a
a. Resin
c. Glycoside

b. Alkaloid
d. Flavonoid

17. Vincristine & vinblastine belongs to which species?
a. Catheranthus roseus
c. Thea sinensis

b. Curcuma longa
d. Artemisia annua

18. Sennoside is a
a. Resin
c. Tannin

b. Alkaloid
d. Glycoside

19. Coleus forskohlii belongs to which family?
a. Rubiaceae
c. Apocynaceae

b. Lamiaceae
d. Leguminosae

20. Digoxin is a
a. Anthraquinone glycoside
c. Bitter glycoside

b. Cardiac glycoside
d. Alkaloid

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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