

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

**SET
A**

Duration : 3 hrs.

Full Marks : 75

Time : 30 min.

Marks : 20

1×20=20

Choose the correct answer from the following:

(PART-A: Objective)

- What is the Scientific name of Clove?
a. Eugenia caryophyllus b. Eugenia vulgaris
c. Ferula caryophyllus d. Eugenia sinensis
- Galenical is a term used for....
a. Extract b. Menstruum
c. Solvent d. Marc
- The chief constituent of Fennel is....
a. D-Fenchone b. Theophylline
c. Mannitol d. Aloin
- The higher affinity of analyte towards stationary phase in Chromatography indicates...
a. Slower Movement Rate b. No Movement Rate
c. Higher Movement Rate d. Doesn't depend upon Movement Rate
- The chemical responsible for sweetness in Cinnamon is...
a. Aloin b. Cinnamylaldehyde
c. Cinnamic acid d. Mannitol
- The full form of DAHP synthase is....
a. 3-Deoxy-D-arabinoheptulosonate-7-phosphate-synthase b. 3-Deoxy-D-arabinoheptulosonate-phosphate-synthase
c. 2-Deoxy-D-arabinoheptulosonate-7-phosphate-synthase d. 4-Deoxy-D-arabinoheptulosonate-7-phosphate-synthase
- Phosphoenolpyruvate is an intermediate product of....
a. Glycolysis b. Pentose Phosphate Pathway
c. Gluconeogenesis d. All of the above
- Shikimic acid is isolated from the Japanese flower....
a. Illicium anisatum b. Catharanthus roseus
c. Japanese camelia d. Japanese wisteria
- Shikimic acid pathway is applied by....
a. Plants and Animals b. Plants and Microorganisms
c. Only Plants d. Only Microorganisms

10. Erythrose-4-Phosphate is an intermediate product of....
 - a. Pentose Phosphate Pathway
 - b. Gluconeogenesis
 - c. Glycolysis
 - d. Kreb's Cycle
11. The Biological Source of Asafoetida is?
 - a. Oleo gum resin of rhizomes and roots
 - b. Oleo gum resin of bark
 - c. Oleo gum resin of leaves
 - d. All of the above
12. Which of the following is a Volatile oil containing drug?
 - a. Mentha
 - b. Clove
 - c. Coriander
 - d. All of the above
13. Liebermann-Burchard's test is for?
 - a. Glycosides
 - b. Reserpine
 - c. Steroids
 - d. Caffeine
14. Curcumin are compounds obtained from?
 - a. Leaves
 - b. Bark
 - c. Stolons
 - d. Rhizomes
15. Reserpine is used to treat?
 - a. High blood pressure
 - b. Ovarian cancer
 - c. Osteoporosis
 - d. Kidney Stones
16. Podophyllotoxin is a
 - a. Resin
 - b. Alkaloid
 - c. Glycoside
 - d. Flavonoid
17. Vincristine & Vinblastine belongs to which species?
 - a. Catharanthus roseous
 - b. Curcuma longa
 - c. Thea sinensis
 - d. Artemisia annua
18. Sennoside is a
 - a. Resin
 - b. Alkaloid
 - c. Tannin
 - d. Glycoside
19. The full form of HPLC is?
 - a. High Performance Liquid Chromatography
 - b. Highest Performance Level Chromatography
 - c. High Performance Liquid Solid Chromatography
 - d. None of the above
20. Digoxin is a
 - a. Anthraquinone glycoside
 - b. Cardiac glycoside
 - c. Bitter glycoside
 - d. Alkaloid

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(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 Spectroscopic techniques in Pharmacognosy? 5
3. Explain the Soxhlet Extraction Technique with Diagram? 5
4. Explain the Differences between Paper Chromatography and Thin Layer Chromatography? 5
5. Give the scientific names of the following drugs: 5
 - a. Rauwolfia
 - b. Vinca
 - c. Benzoin
 - d. Colophony
 - e. Senna
6. Write down the synonym, biological source, chemical constituents and uses of Artemisinin. 5
7. Explain the Isolation, Identification and Analysis of the following drugs: 2.5+2.5=5
 - a. Clove
 - b. Coriander
8. Define the following extraction terminologies: 2.5+2.5=5
 - a. Galenical
 - b. Marc
 - c. Menstruum
 - d. Crude Drug
 - e. Rf value
9. Why Extraction is important? Explain Percolation with diagram. 5

PART-C : Long type questions

[Answer any two (2) questions]

1. Elaborate Shikimic acid pathway with complete chemical reaction along with its significance in the biosynthesis of secondary metabolites. 10
2. Write a detailed note on Glycosides and any two Glycoside containing drugs. 10
3. Write the Industrial Production, Estimation and Uses of the following Drugs: 10
 - a. Forskolin
 - b. Sennosides
 - c. Caffeine

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