

End Semester / Reappear (Semester V) Examination Dec 2022

Programme: B. Pharm

Full Marks: 75

Course: Pharmacognosy & Phytochemistry II

Time: 3 Hrs.

Course Code: BP504T

Enrollment No: _____

Section I

1. Objective type questions. Answer all questions.

20x1=20

- i. Drug is used as emetic-
 - a. Agar
 - b. Isapgula
 - c. Ipecas
 - d. Banana.
- ii. Who is known as father of medicine?
 - a. Aristotole
 - b. Dioscorides
 - c. Hippocrates
 - d. Galen.
- iii. Drug is not under the seed class-
 - a. Nux vomica
 - b. Digitalis
 - c. stopanthus
 - d. Isopgula
- iv. Drug which does not belong to fruit class-
 - a. Artemisia
 - b. Fennel
 - c. Coriender
 - d. Colocynth
- v. Dried latex of the drug is used, except-
 - a. Opium
 - b. Gatta parcha
 - c. Papin
 - d. Balsam .
- vi. The roots of following drugs are effective, except -
 - a. Rauwolfia
 - b. Ipecacuanha
 - c. Tumeric
 - d. Aconite
- vii. Select the drugs, which is not belonging to glycoside class.
 - a. Digitalis
 - b. Senna
 - c. Nux vomica
 - d. Cascara.
- viii. Which is not used as expectorant-
 - a. Ipecacuanha
 - b. Vasaka
 - c. Liquiorice
 - d. Atropine
- ix. Which drugs is used as antihypertensive-
 - a. Raulfia
 - b. Digitalis
 - c. Squill
 - d. Stropanthus.
- x. Which is not used as CNS depressant-
 - a. Hyoscyamine
 - b. Belladona
 - c. Coffee
 - d. Opium
- xi. Primary chemical used in killer-killiani test-
 - a. Chloroform
 - b. Benzene
 - c. acetone
 - d. Toluene
- xii. Colour obtained in Baljet test-----
 - a. Blue
 - b. Red
 - c. Yellow
 - d. Brown.
- xiii. The main chemical constituent of Dioscorea---
 - a. smilagenin
 - b. Epismilagenin
 - c. Dioscin
 - d. Glucose
- xiv. In the agycon part of dioscin what are present-
 - a. Glucose, sucrose
 - b. Glucose, ramnose
 - c. Sucrose, sucrose
 - d. Ramnose, ramnose
- xv. The main chemical constituent of liquiorice---
 - a. Gluconic acid
 - b. Glycyrrhizin
 - c. Sucrose
 - d. Liquiritin.
- xvi. Lignans are consist of-
 - a. Phenyl derivative
 - b. Tetrazole derivative
 - c. Phenyl propane derivative
 - d. Phenyl ether derivatives.
- xvii. The main chemical constituent of lignans-
 - a. Quesertine
 - b. Etoposide
 - c. Rutin
 - d. Begaraptan
- xviii. The height of ruta plant
 - a. 30-40 cm
 - b. 40-50 cm
 - c. 20-25 cm
 - d. 25-30 cm

xix. The colour of rutin---

- a. Yellow b. blue c. pink b. black

xx. The glycon part of Rutin is----

- a. Cellulose manose b. Cellulose ramnose c. Cellulose d. Psoralen

Section II

2. **Short Answer type questions. Answer any five.**

5x7=35

- What is the significance of shikimic acid pathway and what is the end product in this pathway?
- Discuss the biological source, chemical constituents, chemical test & uses of Vinca.
- Write a short note on carotenoids.
- Explain the isolation, identification & analysis of menthol.
- Write the process of industrial production of sennoside.
- How can the mass spectrum be used to find the molecular formula of the organic compounds?
- Draw the splitting of the following compounds-

$\text{CH}_3\text{CH}_2\text{OH}$, $\text{CH}_3\text{CH}_2\text{COCH}_3$, $(\text{CH}_3)_2\text{CHCN}$, and Benzene.

Section III

Long Answer type questions. Answer any two.

2x10= 20

- Write in brief about the industrial production, estimation and utilization of digoxin.
- Discuss basic metabolic pathways and formation of different secondary metabolites of amino acid pathway.
- Write about the instrumentation of NMR. What is chemical shift. A compound has a molecular formula $\text{C}_{10}\text{H}_{13}\text{Cl}$, assign the structure of the compound

Singlet	1.57 delta	6H
Singlet	3.07 delta	2H
Singlet	7.27 delta	5H
