Subject Code: BP504T

PAPER ID-310837

Roll No: 1 [illegible]

BPHARM
(SEM V) THEORY EXAMINATION 2023-24
PHARMACOGNOSY II – THEORY

TIME: 3 HRS **M.MARKS: 75**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

a.	Explain the significance of acetate pathways in the plants.
b.	Mention the role of mutant strains in Biogenetic investigations.
c.	Elaborate the chemical constituents and uses of Opium.
d.	Discuss the medicinal uses of Clove and Aloe.
e.	Write the biological source and uses of Artemisinin.
f.	Explain Stas-otto method for extraction
g.	Outline the chemical test used to identify Cardiac glycosides.
h.	Explain the utilization of Diosgenin.
i.	Differentiate between Infusion and Decoction.
j.	Mention the applications of IR spectroscopy in characterization of phytoconstituents.

SECTION B

2. Attempt any *two* parts of the following: **2 x 10 = 20**

a.	Explain in detail about Shikimic acid biosynthetic pathway.
b.	Discuss the biological source, chemical class, chemical constituents, identification tests, and therapeutic uses of Asafoetida and Digitalis.
c.	Define Extraction. Elaborate the modern methods of extraction in detail.

SECTION C

3. Attempt any *five* parts of the following: **5 x 7 = 35**

a.	Describe Radiotracer technique. Enlist a few examples of radioactive isotopes that can be used in biogenetic studies. Discuss their applications in biogenetic studies.
b.	Describe the properties of Alkaloids. Illustrate the pharmacognosy of Rauwolfia.
c.	Explore industrial production, estimation and utilization of Sennosides.
d.	Mention physio-chemical properties of Resins. Discuss the isolation of Podophyllotoxin.
e.	Discuss the source, utilization and isolation method of Caffeine.
f.	Explain the role of TLC and HPTLC in isolation and purification of phytoconstituents.
g.	Describe isolation method for Atropine and Citral.

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