



Roll No:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**BPHARM**  
**(SEM V) THEORY EXAMINATION 2023-24**  
**PHARMACOLOGY AND PHYTOCHEMISTRY**

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.	Mention the biological source and identification tests for Digoxin.
b.	Outline the importance of acetate pathways in plants.
c.	Define primary and secondary metabolites with suitable examples.
d.	Discuss the medicinal uses of Clove and Aloe.
e.	Write the biological source and medicinal uses of Artemisinin.
f.	Mention any two chemical tests used for the identification of Alkaloids.
g.	Name any two resin containing drugs and give their uses.
h.	Write the biological source and therapeutic uses of Quinine.
i.	Differentiate between Infusion and Decoction.
j.	Outline the factors to be considered for selecting solvent for extraction of crude drugs.

**SECTION B**

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

a.	Schematically represent the biosynthesis of shikimic acid.
b.	Discuss the biological source, chemical class, chemical constituents, identification tests and therapeutic uses of Liquor ice and Rauwolfia.
c.	Discuss Continuous Hot percolation method and Microwave assisted extraction method in detail.

**SECTION C**

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

a.	What are terpenoids? Write the isolation and analysis of menthol.
b.	Discuss the role of radioactive isotopes in biogenetic investigations.
c.	Describe the isolation and identification of Caffeine.
d.	Discuss the pharmacognosy of Fennel and Senna in detail.
e.	Describe the isolation and analysis of Podophyllotoxin.
f.	Write about the industrial production and utilization of Forskolin.
g.	Outline the applications of chromatographic techniques in identification of crude drugs.