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BPHARM
(SEM V) THEORY EXAMINATION 2024-25
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.	Give biosynthetic flow of production of various primary and secondary metabolites.
b.	Explain Competitive feeding in tracer techniques.
c.	Define Tannins. Indicate the commercial applications of Tannins.
d.	Name any two alkaloid containing drugs and give their uses.
e.	Explain the utilization of Diosgenin.
f.	Write an identification test for Quinine.
g.	Write the biological source and uses of Artemisinin.
h.	Write biological source and utilization of Curcumin.
i.	Illustrate the main principle of electrophoresis.
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.	Illustrate in detail about shikimic acid pathway and its significance.
b.	Discuss complete pharmacognosy of Clove and Aloe.
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.	What is the Tracer technique? Discuss role of radioactive isotopes in biogenetic study.
b.	Describe isolation method for Atropine and Citral.
c.	Mention physico-chemical properties of Resins. Discuss the isolation of Podophyllotoxin.
d.	Outline the applications of chromatographic techniques in identification of crude drugs.
e.	Describe about the industrial production and utilization of Sennosides and Digoxin.
f.	Explore the biosources, chemical class, chemical constituents and therapeutic uses of Benzoin and Guggul.
g.	Discuss the source, utilization and isolation method of Caffeine.