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B PHARM
(SEM V) THEORY EXAMINATION 2022-23
PHARMACOGNOSY-II

Time: 3 Hours ***Total Marks: 75***

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

SECTION A

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

(a) Differentiate between primary and secondary metabolites with suitable examples.

(b) Give biosynthetic flow of production of various primary and secondary metabolites.

(c) Discuss chemical constituents and uses of asafoetida.

(d) What is the therapeutic significance of ginger?

(e) Explain Stas-otto method for extraction.

(f) Discuss physico-chemical properties of resins.

(g) What is the biological source and uses of artemisinin?

(h) Give chemical identification test of digoxin.

(i) Explain decoction process of extraction.

(j) What do you mean by theoretical plates in chromatography?

SECTION B

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

(a) Discuss shikimic acid pathway with its significance in biogenesis.

(b) Discuss complete pharmacognosy of opium and digitalis.

(c) Elaborate various chromatographic techniques with their significance. What is herbal fingerprinting?

SECTION C

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

(a) Write a note on the application of radioactivity in the investigation of biogenetic pathway.

(b) Discuss biological source, chemical constituents and uses of belladonna. Give extraction of atropine.

(c) Write a note on application of various spectroscopic techniques in identification of crude drugs.

(d) Explore industrial production, estimation and utilization of Sennosides.

(e) Discuss biological source, chemical constituents, uses of ruta, and citral extraction.

(f) Discuss industrial production, estimation and utilization of Podophyllotoxin.

(g) Discuss biological source, chemical constituents, uses of Rauwolfia, and Reserpine extraction.

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