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

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.**10 x 2 = 20**

- (a) Write any two identification test of cardiac glycosides.
- (b) Give the biological source and therapeutic uses of any two drugs containing tannins.
- (c) Enlist the different chromatographic techniques in identification of crude drugs.
- (d) Name any two sources of drugs containing resins.
- (e) Give the biological source and utilization of vincristine and vinblastine.
- (f) Write the identification test and therapeutic uses of Rutin.
- (g) Write biological source, chemical composition and therapeutic uses of Aloe.
- (h) Write a short note on chemical composition and therapeutic uses of volatile oils.
- (i) Give the identification test of alkaloids.
- (j) Write the source and chemical composition of menthol.

SECTION B

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

- (a) Define radioisotopes. Elaborate the utilization and investigation of radioactive isotopes in biogenetic studies of plant metabolism.
- (b) Write about industrial production, estimation and utilization of sennosides and podophyllotoxins.
- (c) Write a detailed note on occurrence and distribution, chemical classification, therapeutic uses and commercial applications of alkaloids.

SECTION C

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

- (a) Write a short note on shikimic acid pathway for formation of different secondary metabolites.
- (b) Classify terpenoids. Write the source, isolation, identification and therapeutic action of citral.
- (c) Define glycosides. Give the classification and therapeutic action of drugs containing glycosides.
- (d) Give isolation, identification and analysis of atropine and glycyrrhetic acid.
- (e) Write a short note on modern method of extraction methods along with their applications.
- (f) Write a short note on isolation, chemical composition and uses of volatile oils.
- (g) Write an exhaustive note on taxus.