Code No. 12076 / PCI

FACULTY OF PHARMACY

B. Pharmacy V-Semester (PCI) (Main & Backlog) Examination, March 2021

Subject : Pharmacognosy & Phytochemistry – II

Time : 2 Hours **Max. Marks: 75**

Note: Answer any seven questions Part – A, any one questions from Part – B and any five question from Part – C.

PART – A (7x3=21 Marks)

1 Define Radioactive isotopes and give its applications.
2 Write the difference between Primary and Secondary metabolites.
3 Write the Biological source, Chemical constituents and uses of Cinnamon.
4 Write about Borntragers and modified Borntragers test.
5 Define Glycosides and write about cardenolides.
6 Write the Biological source, chemical constituents and uses of
a) Opium b) Pterocarpus
7 Write any two identification test for alkaloids.
8 Explain Keller – kilani test.
9 Write the Chemical constituents and the therapeutic uses of
a) Tea b) Asafoetida.
10 Give the Biological source and use of Artemisia and Rauwolfia.

PART – B (1x14=14 Marks)

11 Explain the biosynthesis of secondary metabolite through Shikimic acid pathway.
12 Describe the applications of chromatographic techniques with special emphasis on isolation and purification of Phytoconstituents in crude drugs.
13 Describe in detail the Biological source, macroscopy, microscopy, chemical constituents, chemical tests and therapeutic uses of
a) Fennel b) Coriander

PART – C (5x8=40 Marks)

14 Explain Autoradiography.
15 Write about Acetate malonate pathway.
16 Give the Biological source, chemical constituents, macroscopy, chemical test and therapeutic uses of Liquorice.
17 Explain the microscopy of Digitalis leaf with a neat labeled diagram.
18 Describe the isolation and analysis of menthol.
19 Write about the estimation and utilization of Diosgenin.
20 Explain the isolation, purification and identification of Phytoconstituents by Electrophoresis.
21 Explain the Biological source, Chemical Tests, Chemical constituents, microscopy and therapeutic uses of Benzoin.
22 Explain the Isolation, identification and analysis of Atropine.

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