

Ref no: Ex/BP504T/2023

B. PHARM. 3rd YEAR FIRST SEMESTER EXAM 2023
SUBJECT: PHARMACOGNOSY AND PHYTOCHEMISTRY II

Time: 3 hours

Total marks: 75

(Answer any five taking at least two questions from each group)

Use separate answer scripts for each group

Group A

1. Write an explanatory note on Radioactive Tracer Technique for studying biosynthetic pathways for the production of plant metabolites. 15
2. Write notes on 7.5 x 2 = 15
 - a) Shikimate pathway
 - b) Mevalonate Pathway
3. Explain schematically the isolation of caffeine, reserpine, and rutin. 5 x 3 = 15
4. Write down the methods of isolation, identification, and analysis of curcumin and quinine. 7.5 x 2 = 15

Group B

Instructions: Answer five questions, taking at least two questions from each group.

1. Define and classify alkaloid with examples. Write the source, chemical constituents and uses of Vinca and Opium. 20
2. What is extraction? Explain the various procedure of extraction by which the soluble constituents can be extracted out from the crude drugs. 20
3. Write the Thin Layer Chromatographic Characterization of medicinal plant extract. 20