

PHARMACOGNOSY-II

Time: 3 hours**Max. Marks: 70**

Question Paper Consists of **Part-A** and **Part-B**
 Answering the question in **Part-A** is Compulsory,
 Three Questions should be answered from **Part-B**

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PART-A

1. (a) Write a short notes on alkaloids with examples.
- (b) Give the identification tests of Rhubarb and Squill.
- (c) Write the biological source and chemical constituents of Tolu balsam and Gambir.
- (d) Give a brief introduction on biogenesis of secondary metabolites.
- (e) Write short notes on Hemp.
- (f) Give the chemical structures of Vincristine, Digoxin and Caffeine.

[4+4+3+4+4+3]

PART-B

2. (a) Define the glycosides with examples.
(b) Write the systematic Pharmacognostic study of Digitalis. [4+12]
3. (a) Write the Biological source, cultivation and collection, chemical constituents and Uses of Cinchona.
(b) Describe the cultivation, collection, chemical constituents and uses of Ergot. [8+8]
4. (a) Write a short notes on Tannins.
(b) Write the identification tests for Pale catechu and Black catechu.
(c) Give the biological source, chemical constituents and uses of Myrobalan fruit. [4+6+6]
5. Write the biological source, preparations, identification tests and uses of
(a) Papain.
(b) Pancreatin. [8+8]
6. (a) Describe in detail about Anthraquinone glycoside biosynthesis. Write their importance in pharmaceutical industry.
(b) Discuss general techniques of biosynthetic pathways of secondary metabolites. [8+8]
7. (a) Write a short notes on Cotton and Jute.
(b) Write the applications of natural dyes in pharmaceutical industry with examples. [8+8]
