

PY-504

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**B. Pharm. (Fifth Semester)
EXAMINATION, June, 2010**

PHARMACOGNOSY – III

(PY-504)

Time : Three Hours

Maximum Marks : 70

Note : Attempt all questions. All questions carry equal marks.

1. Give a detailed account of the biosynthesis of secondary metabolites of pharmaceutical importance. 14

Or

2. Tracer technique is an important tool for the elucidation of biosynthetic pathways in plants. Comment on the statement. 14

3. How will you ascertain the presence of steroidal compounds in a given plant extract ? Discuss the phytochemical screening procedure for these compounds. 4, 10

Or

4. Give a detailed description of the procedure used for phytochemical screening of any *two* of the following : 7, 7

- (a) Anthraquinones
- (b) Saponins
- (c) Amino acids

5. What are Terpenoids ? Classify them. Discuss their extraction, isolation, chemical properties and pharmacological actions. 14

6. Discuss various stereoisomers obtained from plant origin. How the existence of isomeric structures affects the pharmacological activity of the compound ? Explain with examples. 14

7. Diosgenin and sarsapogenin have a common biosynthetic origin. Discuss the biosynthetic pathway which gives rise to these compounds. 14

Or

8. Discuss the biogenetic origin, chemical profile and pharmacological activity of any *two* of the following : 7, 7

- (a) Quinine
- (b) Taxol
- (c) Artemisin

9. Give a systematic pharmacognostic account of any *two* of the following : 7, 7

- (a) Tobacco
- (b) Belladonna
- (c) Datura

Or

10. Write short notes on any *four* of the following : $3\frac{1}{2}$ each

- (a) Ergot
- (b) Vinca
- (c) Rauwolfia
- (d) Opium
- (e) Ipecac
- (f) Sennosides

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