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Roll No

PY-504 (GS)**B.Pharmacy V Semester**

Examination, December 2017

Grading System (GS)**Pharmacognosy - III***Time : Three Hours**Maximum Marks : 70***Note:** i) Attempt any five questions

ii) All questions carry equal marks.

1. What are the building blocks involved in biosynthetic pathways of secondary metabolites? Briefly describe the shikimate acid pathway.
2. Discuss in detail the applications of radio tracer techniques in biogenetic investigations.
3. Describe in detail the preparation of extract and various screening tests performed for the presence of Phenolics, Flavanoids and Alkaloids.
4. Describe the biogenesis and pharmacological activities of the following:
 - a) Digitoxin
 - b) Taxol
 - c) Rutin
 - d) Artemisine

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5. Give the biological source, phytoconstituents, identification tests and pharmaceutical uses of the following:
 - a) Pilocarpus
 - b) Vinca
 - c) Withania
 - d) Ergot
6. Discuss in detail the stereoisomerism nature of terpenoids with suitable examples.
7. Give an exhaustive note on isolation and screening procedures of alkaloids of herbal origin.
8. Write a short notes on any two of the following:
 - a) Sarsapogenins and their pharmacological activity
 - b) Screening of anthraquinones
 - c) Coffee and its industrial importance

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