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PY-504

**B.Pharmacy V Semester** 

Examination, December 2016

Pharmacognosy - III

Time: Three Hours

Maximum Marks: 70

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Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

- ii) All parts of each questions are to be attempted at one place.
- iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.
- iv) Except numericals, Derivation, Design and Drawing etc.
- What are primary and secondary metabolites?
  - b) What are the starting material for the synthesis of shikimic acid pathway?
  - c) Describe the chemical test for alkaloids and terpenes.
  - Describe in detail biosynthesis pathway and pharmacological activity of atropine.

Describe in detail biosynthesis pathway of Reserpine.

- Describe the chemical test for glycosides.
  - Draw the structure of Digitoxin and Digoxin.
  - Give the biosynthesis pathway for Cardiac glycosides.
  - Describe the biosynthesis of Cholesterol.

OR

Discuss the biosynthesis pathway to Flavonoid glycosides.

- Write a note on chemical nature of phytoconstituents.
  - b) Write about major amino acid for synthesis of majority of alkaloids.
  - c) Write various test for steroidal compounds.
  - d) Give the biological source, chemical constituents and uses of Vinca and Cinchona.

Elaborate detail in pharmacognostical study of Nux vomica.

- Give Qualitative test for Anthocyanin.
  - Describe the biogenesis of menthol.
  - Give biogenesis and pharmacological activity of Quinine.
  - Write pharmacognostical account of Cinchona.

Discuss general chemistry and Biogenesis of atropine and quinine.

- Write the biological source of Veratrum and Tea. 5. a)
  - b) Write the biological source of Hyascyamus and Belladonna.
  - c) Give the name of adulterant and allied species of Nux vomica seeds.
  - Describe Phytochemical screening of flavonoids in a given plant extract.

OR

Explain systematic pharmacognostic profile of Datura.

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