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16437(D) - 0 DEC 2016

**B. Pharmacy (Ayurveda) 5th Semester Examination**

**Pharmacognosy-III (NS)**

**BPA-521**

**Time : 3 Hours**

**Max. Marks : 70**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Question 1 is compulsory and candidates are required to attempt any five questions out of remaining six.

1. Write the biological source, chemical constituents and uses of the following drugs.
  - (i) Senega
  - (ii) Squill
  - (iii) Rhubarb
  - (iv) Ipecac
  - (v) Guggulu
  - (vi) Ephedra
  - (vii) Clove
  - (viii) Sandal wood oil
  - (ix) Behera
  - (x) Shatavar (2×10=20)
2. Write the biological source, cultivation, collection, adulterants, diagnostic, macroscopic and microscopic features, chemical constituents, chemical test and uses of Digitalis. (10)

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3. Write the biological source, morphological feature and histological character of Senna leaf and Cinchona bark with appropriate diagram. (5+5=10)
4. Write the biological source, chemical constituents, substitutes, allied drugs, adulterants, chemical test and uses of Fennel and Cardamom. (5+5=10)
5. Write the biological source, chemical constituents and uses of following:
  - (i) Geranium oil
  - (ii) Orange oil
  - (iii) Lemon grass oil (3+3+4=10)
6. Write the botanical sources, controversial sources, chemical constituents, and therapeutic uses of the following traditional drugs:
  - (i) Vasaka
  - (ii) Kalmegh
  - (iii) Ashwagandha (3+3+4=10)
7. Write exhaustive notes on the following:
  - (i) Glycyrrhiza
  - (ii) Opium (5+5=10)