



SB-1145

First Year B. Pharm. Examination

March / April – 2011

PH - 105 : Pharmacognosy - I

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

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|--|---|
| नीचे दशांशविक निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी.<br>Fillup strictly the details of signs on your answer book.                            | Seat No. :  |
| Name of the Examination :  | <input type="text"/>  |
| <input type="text" value="F. Y. B. Pharmacy"/>   | <input type="text"/>  |
| Name of the Subject :  | <input type="text"/>  |
| <input type="text" value="PH - 105 : Pharmacognosy - 1"/>  | <input type="text"/>  |
| Subject Code No. : <input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="4"/> <input type="text" value="5"/> | Section No. (1, 2,.....) : <input type="text" value="1&amp;2"/> |
| Student's Signature  |   |

- (2) All questions are **compulsory**.
- (3) Answer each section in a **separate** answer book.
- (4) Tie up both sections **separately**.
- (5) Figure to the **right** indicate marks.
- (6) Write chemical structure and figure wherever **necessary**.

SECTION - I

35 Marks

- 1 Attempt all questions. 10
  - (a) Define the following terms : (Any five) 5
    - (i) Optical rotation
    - (ii) Volatile oils
    - (iii) Leaf
    - (iv) Hybridization
    - (v) Adulteration
    - (vi) Root
    - (vii) Palisade ratio.
  - (b) Describe the following chemical test : (Any five) 5
    - (i) Modified Borntrager's test
    - (ii) Hager's test
    - (iii) Van-urk's test
    - (iv) Goldbeater's skin test
    - (v) Legal test
    - (vi) Match- stick test.

- 2 Write Botanical source, family, chemical constituents and use of following drugs : (Any four) 16
- (i) Tragacanth
  - (ii) Benzoin
  - (iii) Cassia
  - (iv) Isabgol
  - (v) Kaolin
  - (vi) Lanolin.
- 3 Write short note on : (Any three) 9
- (i) Fibre's and it's classification.
  - (ii) Phyto hormones and its application.
  - (iii) Lycopodium spore method.
  - (iv) Preparation of silk.

## SECTION - II

**35 Marks**

- 4 Attempt any **eleven** from the following : 11
- (i) Which type of chemical constituent can be detected by Dragendorff's test ?
  - (ii) Give the common name of drug which is widely used as dental analgesic.
  - (iii) Give the chemical constituent and use of Agar.
  - (iv) Mention the chemical constituents and uses of Podophyllum.
  - (v) Give the Botanical source of Cardomom.
  - (vi) Give the Botanical source and family of Nutmeg.
  - (vii) Mention the name of oil gland present in Fennel.
  - (viii) Name the chemical composition of Balget's test.
  - (ix) Write the Botanical source and use of Gelatin.
  - (x) Mention Botanical source and family of Sandalwood.
  - (xi) Enumerate various leaves constant.
  - (xii) Name the Botanical name of any one Saponins drug.
  - (xiii) Mention the chemical constituents and use of cotton.
  - (xiv) Define pharmaceutical aids and give atleast one example.
  - (xv) Name the method used for cultivation of medicinal and aromatic plant.

- 5** Attempt any **three** from following : **12**
- (a) Differentiate between Hydrolysable tannins and Condensed tannins.
  - (b) Enumerate general identification test and therapeutic use of glycoside.
  - (c) Define the term Pharmacognosy. Discuss it's scope and development.
  - (d) Classify crude drugs. Discuss chemical classification with chemical structure and suitable example.
  - (e) Discuss various advantages of cultivation technology.
- 6** Attempt any **two** from following : **12**
- (a) Describe character of family Apocyanaceae giving floral formula, floral diagram with suitable example.
  - (b) Draw a well labeled diagram of T.S of Coriander fruit and describe its microscopic characters.
  - (c) Outline the schematic diagram for the phytochemical screening of alkaloids.
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