



SB-1145
First Year B. Pharm. Examination
March / April – 2011
PH - 105 : Pharmacognosy - I

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

<p>નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination :</p> <p>F. Y. B. Pharmacy</p> <p>Name of the Subject :</p> <p>PH - 105 : Pharmacognosy - 1</p> <p>Subject Code No. : 1 1 4 5 Section No. (1, 2,.....): 1&2</p>	<p>Seat No. :</p> <table border="1" style="width: 100%; height: 20px;"><tr><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td></tr></table> <div style="border: 1px solid black; border-radius: 15px; height: 60px; margin-top: 10px; display: flex; align-items: center; justify-content: center; padding: 10px;">Student's Signature</div>						

- (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

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|---|---|----|
| 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. | |

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[Contd...

- 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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