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**SB-1176**

**Final Year B. Pharm. Examination**

**March / April - 2011**

**PH - 406 : Pharmacognosy - III**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दृशविले निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<b>Final Y. B. Pharm.</b>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<b>PH - 406 : Pharmacognosy - 3</b>	<input type="text"/>
Subject Code No. : <input type="text"/> 1 <input type="text"/> 1 <input type="text"/> 7 <input type="text"/> 6	Section No. (1, 2,.....) : <input type="text"/> 1&2
	Student's Signature

- (2) All questions are **compulsory**.
- (3) Figures to the **right** side indicate full marks.
- (4) Answer and submit both sections **separately**.

**SECTION - I**

- 1 Attempt any **five** of the following : 10
  - (a) Write biogenesis of the bain derived alkaloids.
  - (b) Write biosynthesis of papavarine from Tyrosine.
  - (c) Write biogenesis of reserpine from tryptophan.
  - (d) Write biogenesis of tropane alkaloids.
  - (e) Write biogenesis of proto alkaloid from C<sub>6</sub>-C<sub>3</sub> compound pathway.
  - (f) Write biosynthesis geraniol from acetyl-co A.
  - (g) Write biogenesis of quinine from strictosidine.
  
- 2 Attempt any **four** from following : 16
  - (a) Write on sovoboda's method.
  - (b) Define asava and Aristha. Write various standardization parameter used in standardization.
  - (c) Write production and utilization of menthol.
  - (d) Write biogenesis of any one sapogenin via acetate mevalonate pathway.
  - (e) Define Bhasma. Give method of preparation and purification of Bhasma.
  - (f) Define Churna. Give method of preparation and standardization of Sitopthaladi churna.

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[Contd...

- 3** Attempt any **three** of the following : **9**
- (a) Define Extraction. Discuss briefly various method used for extraction.
  - (b) Discuss isolation of procedure of ergotamine by Stoll method.
  - (c) Discuss the utilization of medicinal aromatic plant in pharmacy.
  - (d) Write advantage of PTC over conventional method of propagation.

## SECTION - II

- 4** Define the following term : (any **eleven**) **11**
- (a) Iridoid
  - (b) Lepa
  - (c) Satva
  - (d) Neutraceutical
  - (e) Arka
  - (f) Plant tissue culture
  - (g) Terpenoid
  - (h) Xanthophylls
  - (i) Taila
  - (j) Vati
  - (k) Organogenesis
  - (l) Callus culture
- 5** Attempt any **three** of the following : **12**
- (a) Discuss Extraction and isolation methodology of Chinchona alkaloid.
  - (b) Write note on Ayurvedic system of medicine with basic principle.
  - (c) Draw labeled diagram of soxhlet and Clevenger apparatus along with application.
  - (d) Write on shickmic acid pathway.
- 6** Attempt any **two** of the following : **12**
- (a) Application of plant tissue culture in pharmacy
  - (b) Discuss marine as potential source of novel drugs
  - (c) Write on Neutraceutical as health food.
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