



RF-1383-84

Final Year B. Pharm. Examination

April / May - 2010

PH - 406 : Pharmacognosy - III

Time : 3 Hours]

[Total Marks : 70

RF-1383

Instructions :

(1)

नीचे दृष्टाविले निशानीवाणी विगतो उत्तरवही पर अवश्य लખवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
Final Year B. Pharm

Name of the Subject :  
PH - 406 : Pharmacognosy - 3

Subject Code No.: 1 3 8 3 Section No. (1, 2,...): 1

Seat No. :

Student's Signature

- (2) All questions are **compulsory**.  
(3) Figures to the **right** side indicate marks.  
(4) Tie up both sections **separately**.  
(5) Draw labeled diagram and chemical structure wherever **necessary**.
- 1 Attempt any **five** from followings : **10**
- (a) Write the Composition of Sitopaladi churna.  
(b) Write biosynthesis of Hyoscine from Ornithine.  
(c) Define Extraction and enumerate various factors affecting mechanism of Extraction.  
(d) Discuss world wide trade of any one Cardiac drug derived from plant source.  
(e) Draw well labeled diagram of Soxhlet's Apparatus.  
(f) Write a note on Bhasma and it's preparation.  
(g) Give a brief account on Eucalyptus oil.
- 2 Attempt any **four** from following : **16**
- (a) Give a brief account on irridoids and their biosynthesis.  
(b) Give a brief account on Carotenoids and their biosynthesis.  
(c) Write note on world wide trade of Taxol and Liquorice.  
(d) Discuss the general method for preparation and standardization of Ashokaristha.  
(e) Discuss biosynthesis of Cholesterol from Squalene.
- 3 Attempt any **three** from following:- **9**
- (a) Describe briefly Nutraceutical: Herbs as Health Food.  
(b) Discuss world wide trade of plants with Laxative action.  
(c) Write a note on utilization of vetivar oil.  
(d) How the extraction and isolation of poppy alkaloids is done.

**Instructions :**

(1)

नीचे दशांश में निशानीवाणी विगतो उत्तरवही पर अवश्य लिखी. Fillup strictly the details of signs on your answer book.		Seat No. :	
Name of the Examination :		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
<input type="text"/> <b>Final Year B. Pharm</b>		<div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center;">           Student's Signature         </div>	
Name of the Subject :			
<input type="text"/> <b>PH - 406 : Pharmacognosy - 3</b>			
Subject Code No. : <input type="text"/> <b>1</b> <input type="text"/> <b>3</b> <input type="text"/> <b>8</b> <input type="text"/> <b>4</b>		Section No. (1, 2,.....) : <input type="text"/> <b>2</b>	

- (2) All questions are **compulsory**.  
 (3) Figures to the **right** side indicate marks.  
 (4) Tie up both sections **separately**.  
 (5) Draw labeled diagram and chemical structure wherever **necessary**.

4 Define the following term (any **Eleven**) : 11

- |                        |                              |
|------------------------|------------------------------|
| (i) Irridoids          | (ii) Gutikas                 |
| (iii) Types of Extract | (iv) Phytochemical screening |
| (v) Kwath churna       | (vi) Arks                    |
| (vii) Totipotency      | (viii) Plant Tissue Culture  |
| (ix) Xanthophylls      | (x) Terpinoids               |
| (xi) Carotenoids       | (xii) Arista                 |
| (xiii) Lepa            | (xiv) Malamas                |
| (xv) Vati.             |                              |

5 Attempt any **three** from following:- 12

- (i) Describe briefly application of Plant Tissue Culture
- (ii) Write Noble, Beer and Cutt's method for extraction and isolation of Vinblastine.
- (iii) Discuss isolation procedure for Diosgenin described by Das Gupta and Co-worker.
- (iv) Discuss briefly Acetate mevalonate pathway.

6 Attempt any **two** from following : 12

- (i) Discuss extraction and isolation of Tropane alkaloids.
- (ii) Discuss Shikimic acid pathway and list out the constituents that have been biosynthesized via this pathway.
- (iii) Write a note on novel compounds obtained from marine source.