



RC-1349-50
Third Year B. Pharm. Examination
April / May - 2010
PH-305 : Pharmacognosy-II

Time : 3 Hours]

[Total Marks : 70

RC-1349

Instructions : (1)

<p>नीचे दृश्यावेक निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : Third Year B. Pharm.</p> <p>Name of the Subject : PH-305 : Pharmacognosy-2</p> <p>Subject Code No. : 1 3 4 9 Section No. (1, 2,.....) : 1</p>	<p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; height: 60px; display: flex; align-items: center; justify-content: center; margin-top: 10px;">Student's Signature</div>
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- (2) All questions are **compulsory**.
- (3) Figures to the **right** side indicate marks.
- (4) Tie up **both** sections **separately**.
- (5) Draw labelled diagram and chemical structure wherever **necessary**.

1 Attempt any **five** from the following : **10**

- (i) Mention two examples of desoxy sugars found in digitalis. Write a chemical test for desoxy sugars.
- (ii) Write down general chemical tests for alkaloids.
- (iii) What is diosgenin? Draw its chemical structure.
- (iv) Draw a well labelled morphological diagram of Datura metal leaf. Write down its morphological characteristics.
- (v) Differentiate between Ammi majus and Ammi visnaga.
- (vi) Give biological source and uses of Kalijiri.
- (vii) Comment : Ergot should be stored in polythene bag.

2 Answer the following questions : Attempt any **four** : **16**

- (i) Discuss the role of medicinal and aromatic plants in national economy.

- (ii) Write a short note on papain enzyme.
- (iii) Discuss in detail about tropane alkaloids.
- (iv) Differentiate between Indian rauwolfia and African rauwolfia.
- (v) Cultivation and collection of opium.
- (vi) Write a brief note on antiasthmatic traditional drugs.

3 Attempt any **three** : 9

- (i) Discuss in detail about chemical classification of alkaloids with suitable examples.
- (ii) Draw a well labelled diagram of transverse section of vasaka leaf.
- (iii) Give biological source and chemical constituents of any two traditional drugs which are used as brain tonic.
- (iv) Discuss in detail about method of preparation of allergenic extracts.
- (v) Write down a pharmacognostic note on withania.

RC-1350

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>Third Year B. Pharm.</p> <p>Name of the Subject :</p> <p>PH-305 : Pharmacognosy-2</p> <p>Subject Code No. : 1 3 5 0 Section No. (1, 2,.....): 2</p>	<p>Seat No. :</p> <table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <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; padding: 10px; text-align: center; margin-top: 10px;"> <p>Student's Signature</p> </div>						

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

4 Attempt any **eleven** from the following : 11

- (i) Write down Biological source of any two drugs containing bitter glycosides.

- (ii) How to prepare galo satva? Give its uses.
- (iii) What is a biological source of saffron?
- (iv) What is cinchona red? How it is formed?
- (v) Write down biological source of antilipidemic herbal drug.
- (vi) Write down Biological source of drug showing abortifacient activity.
- (vii) Draw the chemical structure of gallic acid.
- (viii) Give biological source of two adulterants of senna leaves.
- (ix) Give uses of betel nut.
- (x) Give biological source of jalbrahmi.
- (xi) Write a specific chemical test for ergot.
- (xii) Mention chemical constituents of kali musli.
- (xiii) Write down biological source of different species of rasna.
- (xiv) Give uses of bhilama.

5 Attempt any **three** : **12**

- (i) Write down a brief note on photosensitizing agent with suitable examples.
- (ii) Describe Pharmacognosy of liquorice.
- (iii) Write down a short note on cinchona alkaloids.
- (iv) Discuss in detail about novel natural products from marine sources.
- (v) Write a short note on poisonous plants of India.

6 Attempt any **three** : **12**

Differentiate between following :

- (i) Indian senna and Alexandrian senna
- (ii) Strychnos nuxvomica and Strychnos potatorum
- (iii) Bada Gohru and Chhota Gokhru
- (iv) Digitalis purpurea and Digitalis lanata
- (v) Cardenolides and bufadinolides.