* R A - 1 3 0 9 - 1 0 / 1 1 0 0 *

RA-1309-10

First Year B. Pharm. Examination

March / April – 2010

Pharmacognosy - I

Time : Hours] [Total Marks : **70**

RA-1309

Instructions :

(1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ F.Y. B. Pharm.

Name of the Subject :

☛ Pharmacognosy - 1

☛ Subject Code No. : 1 3 0 9 ☛ Section No. (1, 2,.....) : 1

Seat No. :

Student's Signature

(2) All questions are **compulsory**.
(3) Draw the figure and chemical structure wherever **necessary**.
(4) Figures to the **right** indicate full marks.
(5) Answers to each section be written in **separate** answer books.

1 Answer the following questions : **11**

(a) Define Alkaloids. Discuss their properties, classification and isolation procedure in detail with suitable examples. **6**

(b) Define Adulteration. Describe different types of adulterants in detail. **5**

2 Attempt any **three** : **12**

(a) Differentiate between Siam Benzoin and Sumatra Benzoin.

(b) Discuss factors affecting cultivation.

(c) What are trichomes? How are they classified?

(d) What is induced mutation? Give examples of different mutagens.

3 Attempt any **three** : **12**

(a) Define Pharmacognosy. Discuss about its scope and development.

(b) Name and describe extraction/isolation methods for glycosides. Classify cardiac glycosides giving examples.

(c) Discuss in detail about hybridization.

(d) Defferentiate (any **two**) :

(i) Black catechu and pale catechu

(ii) Siam Benzoin and Sumatra Benzoin

(iii) Chinese Cinnamon and Ceylon Cinnamon.

RA-1310

Instructions :

(1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ **F.Y. B. Pharm.**

Name of the Subject :

☛ **Pharmacognosy - 1**

☛ Subject Code No. : **1 3 1 0** ☛ Section No. (1, 2,.....) : **2**

Seat No. :

Student's Signature

(2) All questions are **compulsory**.
(3) Draw the figure and chemical structure wherever **necessary**.
(4) Figures to the **right** indicate full marks.
(5) Answers to each section be written in **separate** answer books.

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

(i) What is vitta? How many vittae are present in fennel?
(ii) Give chemical structure of Eugenol.
(iii) Write pharmaceutical applications of agar.
(iv) Mention therapeutic use of Bentonite.
(v) Define : Palisade ratio.
(vi) Write biological source and use of kaolin.
(vii) Mention underground modifications of root.
(viii) What is Hager's test?
(ix) Write biological source and use of Isapgol.
(x) Name different plant growth regulators.
(xi) Write biological source and chemical constituents of Cinchona bark.
(xii) Name two pesticides with their chemical structure.
(xiii) Write source and chemical constituents of cod liver oil.
(xiv) Write adulterants of clove.
(xv) Write the name of glycoside present in Nux vomica.

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

(a) Write a short note on : Umbelliferous fruits
(b) Draw a labelled diagram of transverse section of Cinnamon bark.
(c) Write a short note on preparation of honey.
(d) Write down general characteristics of family Apocynaceae. Describe any one example in detail.

6 Write biological source, chemical constituents and uses of the following drugs : (any **four**) **12**

(i) Fennel (ii) Sandalwood
(iii) Myrobalan (iv) Wool
(v) Ginger (vi) Cinchona.
