

12.06.15 (ASTU-Reg) - 4th Sem.

Total No. of printed pages = 4

PY 1324010

Roll No. of candidate

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

B.Pharm 4th Semester, End-Term Examination

PHARMACOGNOSY -IV

Full Marks - 100 Pass Marks - 35 Time - Three hours

The figures in the margin indicate full marks for the questions.

1. Answer the following questions (any six) :

2×6=12

- Write biological source and family of Amla.
- Write down the vernacular names of Ghokhru.
- Name the drug belongs to the family of Anacardiaceae and Convolvulaceae.
- What is chromatography ?
- Write down the biological source and family of Opium.

[Turn over

(f) Give the botanical name of Rauwolfia and Withania.

(g) _____ and _____ are the two families which does not contain alkaloids.

(Fill in the blanks)

(h) The medicinal uses of Morphine is _____ and Codeine is _____.

(Fill in the blanks)

2. Answer the following questions (any six) :

3×6=18

(a) Define the term 'Retention factor'.

(b) What do you mean by developing solvent ?

(c) Briefly discuss the morphology of Brahmi.

(d) What do you mean by 'Edge effect'?

(e) Define the terms photoallergy, photophobia and phototoxicity.

(f) Give the biological source, family and chemical constituents of Tobacco.

(g) Give the morphological diagnostic characters of *Nux Vomica*.

(h) Give the microscopical diagnostic characters of *Datura*.

72/PY 1324010

(2)

3. Answer the following questions (any eight) :

5×8=40

(a) What is the principle of column chromatography? Describe the role of polarity in adsorption column chromatography. 3+2=5

(b) Write down the chemical constituents and uses of following traditional drugs : Satavari, Adusa, Lahsun, Guggul, Arjuna. 1×5=5

(c) Differentiate between paper and column chromatography. What do you mean by partition coefficient ? 3+2=5

(d) Discuss the application of HPLC in evaluation of herbal drug. 5

(e) Define the terms : Carminative, Anthelmintic, Astringent. What is the name of bitter principle present in *Calamus* ? Mention the name of yellow crystalline substance present in *Rasna*. 3+1+1=5

(f) Describe the systematic pharmacognostical study of *Areca nut*. 5

(g) Describe in brief the methods for the isolation of *Opium alkaloids*. 5

(h) Describe the systematic pharmacognostical study of *Catharanthus (Vinca)*. 5

72/PY 1324010

(3)

[Turn over

(i) Write short notes on tropane alkaloids. 5

(j) Give the biological source, chemical constituents and medicinal uses of Kurchi bark.

2+2+1=5

4. Answer the following questions (any *three*):

10×3=30

(a) Describe the various steps involves in TLC. Discuss the application of TLC in quantitative analysis.

5+5=10

(b) Define Traditional drug. Write down the biological source and marketed formulation of the following traditional drugs: Bael, Rasna, Tulsi, Neem.

2+(2×4)=10

(c) Give the difference between photodynamic and photosensitizing agent. Describe in brief the utilization of photosensitizing substances in therapy of skin diseases.

5+5=10

(d) Define allergy. What are the different types of allergens? Write a brief note on contactant allergens with examples.

2+3+5=10