

December 2025

PHARMACOGNOSY

Time Allowed: 3 Hours

Full Marks: 80

(Answer all questions as directed)

1X10

1. Choose the correct alternative (any ten)

- (i) The Indian Pharmacopoeia classify crude drugs by-
(a) Taxonomical (b) Pharmacological (c) Alphabetical (d) Morphological
- (ii) Antihypertensive drug reserpine is extracted from this part of Rauwolfia plant-
(a) Leaves (b) Stem bark (c) Flowers (d) Root
- (iii) Spirulina is used as-
(a) pharmaceutical aid (b) cathartic (c) nutraceutical (d) all of them.
- (iv) Barbaloin is an example of-
(a) Alkaloid (b) Glycoside (c) Resin (d) Tannin
- (v) Ayurvedic dosage form of tablets are known as-
(a) Churna (b) Lehya (c) Vati (d) Taila
- (vi) Punarnava leaf extract-
(a) Increases plasma insulin level (b) decreases plasma insulin level (c) no action on plasma insulin level
(d) none of them
- (vii) GLC refers to-
(a) Gamma liquid chromatography (b) Gamma level counter (c) Gas Level counter (d) Gas liquid chromatography
- (viii) *Ilaj bil-Dawa* in Unani system of medicine refers to-
(a) Pharmacotherapy (b) Regimental Therapy (c) Surgery (d) Diet-therapy.
- (ix) All of these alkaloids are from Solanaceae family except-
(a) Atropine (b) Cocaine (c) Hyoscine (d) Hyoscyamine
- (x) Nux Vomica belongs to the family-
(a) Lauraceae (b) Loganiaceae (c) Liliaceae (d) Lamiaceae
- (xi) Phenolic natural products that precipitate proteins from their aqueous solutions are called-
(a) Tannins (b) Alkaloids (c) Resins (d) Glycosides.

2. Fill in the blanks- (Answer all)

1X10

- a) The part of coca which is used as stimulant is _____
- b) The terpenoid present in ginger oil is _____
- c) Absorbent cotton is made with hairs of short length called _____.
- d) The alkaloids of vinca are _____ and _____.
- e) Santalol is a chemical constituent of _____.
- f) Volatile oil is also called _____ oil.
- g) The protein in silk is _____.
- i) The active constituent of volatile oil in cardamom is _____.
- j) Ipecacuanha has _____ therapeutic property.
- k) Kattha is the common word used for the drug _____.

3. Answer any 10 (ten) questions –

- a) Write the basic principles of Siddha system of medicine.
- b) Write a short note on dietary fibres.
- c) Write down the chemical constituents and uses of Kaolin.
- d) State the biological source of diastase and yeast.
- e) Write a note on Ipecacuanha.
- f) Define anti-tussive. Write biological source, active constituents and uses of vasaka.
- g) Write down the chemical constituents of fennel, ginger and nutmeg.
- h) Write a short note on resin combinations.
- i) Write briefly about different isolation methods of volatile oils.
- j) Write in short about quantitative evaluation of crude drugs.
- k) Differentiate organized and un-organised crude drugs.

4. Answer the following questions any 6 (six)**5X6**

- a) Explain the Morphological Classification of crude drugs mentioning its advantages and disadvantages with specific examples. [2+1.5+1.5=5]
 - b) Briefly describe quality control methods for medicinal plant materials. [5]
 - c) Explain the types of Percolation method for extraction of crude drug. [5]
 - d) Explain various methods of adulteration of crude drugs with suitable examples. [5]
 - e) Write down the biological sources and uses of arjuna, Hyoscyamus, podophyllum, myrrh and guggul. [5]
 - f) Write notes on identification tests for glycosides and tannins. [5]
 - g) Write in detail with examples about chemical classification of crude drugs. [5]
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