

Total No. of printed pages = 4

ER 20 -13 T

Bina Chowdhury Central Library
Girijananda Chowdhury University
Hatkhowapara, Azara, Ghy-17

Roll No. of candidate

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2023

D.Pharm. Part-I End-Term Examination

PHARMACOGNOSY (THEORY)

Full Marks – 80

Time – Three hours

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

1. Answer *all* questions.

(A) Multiple choice questions.

(10 × 1 = 10)

(i) Name of the scientist who gave the term Pharmacognosy

(a) Seydler

(b) Charak

(c) Sushruta

(d) Hippocrates

(ii) All are physical method of evaluation of drugs except

(a) Stomatal index

(b) Ash value

(c) Extractive value

(d) Viscosity

(iii) Periwinkle is the synonym for

(a) Vinca

(b) Vasaka

(c) Digitalis

(d) Asfoetida

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- (iv) Volatile oil is derived from _____
- (a) Isoflavonoid
 - (b) Terpenes
 - (c) Resin
 - (d) Phenolic compound
- (v) Shinoda test is used to detect
- (a) Flavonoid
 - (b) Tannin
 - (c) Carbohydrate
 - (d) Alkaloid
- (vi) Samuel Hahnemann is known as
- (a) Father of Unani medicine
 - (b) Father of Homeopathy medicine
 - (c) Father of Siddha medicine
 - (d) 1st pharmacist in the world.
- (vii) Biological source of Tragacanth is
- (a) *Astragalus gummifer*
 - (b) *Asperagus tragacanthus*
 - (c) *Cassia angustifolia*
 - (d) *Cassia acutifolia*
- (viii) Water soluble constituent of Ergot.
- (a) Ergotarmine
 - (b) Ergometrin
 - (c) Ergosine
 - (d) Ergocryptine
- (ix) It is an example of unofficial drug
- (a) Ginger
 - (b) Turmeric
 - (c) Aloe
 - (d) Traditional Medicine
- (x) The classification system comprising of chemical type of compound and evolution of plant is
- (a) Chemical
 - (b) Taxonomical
 - (c) Chemotaxonomical
 - (d) Morphological

(B) Fill in the blanks : (10 × 1 = 10)

- (i) The specific odour of Asafoetida is due to _____ compound.
- (ii) _____ acid is the main constituent of Gall.
- (iii) Acacia contains _____ enzyme.
- (iv) _____ had written "Materia Medica".
- (v) _____ is an example of bitter glycoside.
- (vi) Castor oil is used as _____
- (vii) Murexide test is done to detect _____
- (viii) The therapeutically important alkaloid of Cinchona is _____.
- (ix) Palisade ratio is _____ of number of palisade cells beneath each epidermal cell.
- (x) Shark liver oil is a drug from _____ source.

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2. Answer any *ten* questions. (10 × 3 = 30)

- (a) Give the differences between Sumatra Benzoin and Siam Benzoin. (3)
- (b) Explain the extraction process of Alkaloid. (3)
- (c) Define the term Pharmacognosy. Enumerate the different sources of crude drugs with example. (1 + 2)
- (d) Briefly explain the isolation methods of volatile oil. (3)
- (e) Write a brief note on Nutraceuticals. (3)
- (f) Write down biological source and therapeutic effect of the following : (3 × 1 = 3)

Digitalis, Opium, Raulwolfia

- (g) Define plant fiber. What is surgical catgut? (1 + 2)
- (h) Write down biological source and chemical constituents of the following : (3 × 1 = 3)

Senna, Cardamom, Agar

- (i) Define Glycoside. Give the classification of Glycoside. (1 + 2)
- (j) Give the Pharmacognosy of Cotton. (3)
- (k) Write down therapeutic applications of Omega-3-fatty acid. (3)

3. Answer any *six* questions. (6 × 5 = 30)

- (a) What is Tannin? Describe Goldbeater's skin test. (2 + 3)
- (b) Write down the preparation procedure of Asava. (5)
- (c) Write short note on Morphological and Alphabetical classification of crude drug. (2.5 + 2.5)

- (d) Write short note on Ayurvedic system of medicine. (5)
- (e) What do you mean by Evaluation of crude drug? Explain Microscopical evaluation of crude drugs. (1 + 4)
- (f) Differentiate organized and unorganized drug. (5)
- (g) Explain the role of medicinal and aromatic plants in national economy. (5)
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