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Roll No. of candidate

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23/08/22

BINA CHOWDHURY CENTRAL LIBRARY  
H. IMT & TIPS  
82/1/2 Halki, Gwalior  
Gwalior-471017

2022

B.Pharm. 4<sup>th</sup> Semester End-Term (Repeaters) Examination

PHARMACOGNOSY AND PHYTOCHEMISTRY - I

(New Regulations)

Full Marks - 75

Time - Three hours

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

1. Answer all questions : (20)

A. Multiple Choice questions. (1 × 10 = 10)

(a) The name Pharmacognosy coined in the year

- (i) 1814 (ii) 1815  
(iii) 1851 (iv) 1856

(b) One of the following is not a natural Auxin

- (i) Indole 3 acetonitrile (IAN)  
(ii) 4 Chloroindole 3 acetic acid  
(iii) Indole 3 butyric acid (IBA)  
(iv) Indole 3 acetic acid (IAA)

(c) The main function of stomata is

- (i) Exchange of gases (ii) Prepare of food  
(iii) Elongate the root (iv) None of the above

(d) Talc is a \_\_\_\_\_ source of drug.

- (i) Animal (ii) Mineral  
(iii) Marine (iv) Plant

(e) Hemp and Jute are

- (i) Plant fibre (ii) Animal fibre  
(iii) Mineral fibre (iv) Synthetic fiber

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- (f) Alkaloids are \_\_\_\_\_ type of substances.
- (i) Acid (ii) Neutral  
(iii) Basic nitrogenous (iv) Chemical
- (g) Balsam contains mainly acids
- (i) Acetic acid + Benzoic acid  
(ii) Cinnamic acid + Hydrochloric acid  
(iii) Benzoic acid + Cinnamic acid  
(iv) Acetic acid + Hydrochloric acid
- (h) *Phytophthora erythrosceptica* which causes damping off young seedling is a
- (i) Bacteria (ii) Virus  
(iii) Fungi (iv) Weed
- (i) Surface sterilization is done by
- (i) Sodium hypochlorite (2%)  
(ii) Calcium hypochlorite (9-10 %)  
(iii) Mercuric chloride (0.1 — 1%)  
(iv) All of the above
- (j) Panchamahabhuta and Tridosha theory is related to
- (i) Homeopathy (ii) Ayurveda  
(iii) Unani (iv) Siddha

B. Objective type questions: (1 × 10 = 10)

- (a) What is an explant?  
(b) Which system contains Yin and Yang theory?  
(c) Name the important chemical constituent of Honey.  
(d) What is Phlobaphene?  
(e) What do you mean by enfleurage method?  
(f) Mention the dry distillation product of gallic acid.  
(g) Which test is performed for the identification of cardiac glycoside?  
(h) What is adulteration of crude drugs?  
(i) Define Hybridization.  
(j) Name the gaseous plant hormone.

2. Answer any seven from the following. (7 × 5 = 35)

- (a) Classify Tannin. Describe Gold beater's skin test. (2+3)  
(b) Enumerate the Ayurvedic system of medicine. (5)  
(c) Describe the microscopical evaluation of crude drug. (5)  
(d) Describe the history and scope of Pharmacognosy. (2.5+2.5)

- (e) Classify Plant Hormone. Give example and application of natural Auxin. (2+3)
- (f) Write short notes on the following (2.5 × 2)
- (i) Polyploidy
  - (ii) Teratogen
- (g) Write down biological source and therapeutic utility of following drugs. (1 × 5)

Agar, Papain, Castor oil, Gelatin, Bees wax

- (h) Define and classify fibers. Write down the biological source and uses of Cotton. (1 + 2 + 2)
- (i) What is Pest? Describe pest management system. (1+4)
3. Answer any *two* from the following (2 × 10 = 20)
- (a) Define crude thug? Write in detail the classification of crude drugs. (2+ 8)
  - (b) Enumerate the factors influencing the cultivation of crude thugs. (10)
  - (c) What is Plant Tissue Culture? Write about the basic requirements of Plant Tissue Culture. (3+7)

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