

II B. Pharmacy II Semester Regular/Supplementary Examinations, November - 2020
PHARMACOGNOSY AND PHYTOCHEMISTRY-I

Time: 3 hours

Max. Marks: 75

- Note: 1. Question paper consists of three parts (**Part-I, Part-II & Part-III**)
 2. Answer ALL (Multiple Choice) Questions from **Part-I**
 3. Answer any **TWO** Questions from **Part-II**
 4. Answer any **SEVEN** Questions from **Part-III**

PART - I

1. (i) Father of Pharmacognosy is..... (1M)
 (a) Aryabhata (b) Galen (c) Seydler (d) Dioscorides
- (ii) ----- is an example of morphological classification (1M)
 (a) Guar gum (b) Atropine (c) Pain oil (d) Mentha piperita
- (iii) Official crude drugs are... (1M)
 (a) The drugs produced by following old scriptures
 (b) The drugs sold in the open market
 (c) The drugs mentioned in pharmacopoeia
 (d) The drugs manufactured in an industry
- (iv) falls outside the purview of pharmacognosy. (1M)
 (a) Extraction of alkaloids
 (b) Cultivation of neem tree
 (c) Microscopic evaluation of crude drugs
 (d) Biological evaluation of extracts
- (v) will easily degrade if stored at room temperature (1M)
 (a) Atropine (b) Digoxin (c) Piperin (d) Caffeine
- (vi) part is used for vegetative propagation of Allium. (1M)
 (a) Rhizome (b) Tuber (c) Bulb (d) Stem
- (vii) is an example of sexual propagation method. (1M)
 (a) Grafting (b) Seedling (c) Layering (d) Cutting
- (viii) is a very common ingredient in cell culture (1M)
 (a) Coconut milk (b) Coco peat (c) Cocoa butter (d) coconut oil
- (ix) Lignans are obtained from the plant culture of (1M)
 (a) Artemisia (b) Podophyllum (c) Atropa (d) Datura
- (x) acts as a plant hormone and causes cell elongation. (1M)
 (a) Indole acetic acid (b) Salicylic acid (c) Adenine (d) zeatin
- (xi) Charcoal is added to tissue culture media to act as a agent (1M)
 (a) Solidifying (b) detoxifying (c) coloring (d) buffering
- (xii) Callus culture is preferred forplant (1M)
 (a) Coffee arabica
 (b) Papaver somniferum
 (c) Ammi visnaga
 (d) Rauwolfia serpentine
- (xiii) is the pain killer medicine obtained from marine sources (1M)
 (a) Conotoxin (b) fludarabine (c) tetradoxin (d) brevetoxin
- (xiv) is an example of a secondary metabolite (1M)
 (a) Gelatin (b) Papain (c) Honey (d) Clove oil

- (xv) is the oldest system of medicine (1M)
(a) Siddha (b) Homeopathy (c) Ayurveda (d) Unani
- (xvi) According to Ayurvedic principles, pitta decreases with foods with taste (1M)
(a) Sour (b) Saline (c) Bitter (d) Pungent
- (xvii) Key chemical used in the preparation of Dragendorff's reagent is.... (1M)
(a) Mercuric chloride
(b) Potassium bismuth iodide
(c) Potassium iodide
(d) Potassium mercuric iodide
- (xviii) is the characteristic chemical reaction used for identification of proteins (1M)
(a) LB test (b) Biuret test (c) Ninhydrin test (d) Hager's test
- (xix) is used as a standard for evaluating bitterness of a crude drug. (1M)
(a) Colchicine (b) Quinine (c) Piperine (d) Atropine
- (xx) test is commonly used for evaluating saponins. (1M)
(a) Coagulation (b) Hemolysis (c) Swelling index (d) loss on drying

PART -II

2. a) Write a note on contributions of Hippocrates and Galen to the field of pharmacognosy. (5M)
b) Discuss the significance of animals as a source of crude drugs. (5M)
3. a) State and explain the methods used for collection of crude drugs. (5M)
b) Mention the principle and applications of hybridization in medicinal plants. (5M)
4. Write the source, method of collection, chemical constituents and uses of (10M)
(a) Acacia (b) Pepsin

PART -III

5. Write in brief on organized drugs. (5M)
6. Explain the method used merits and demerits of taxonomical classification. (5M)
7. Discuss the physical methods used for qualitative evaluation of crude drugs. (5M)
8. With a neat sketch explain the construction, working and applications of camera lucida. (5M)
9. Discuss the role of temperature and altitude in the cultivation of medicinal plants. (5M)
10. List out the methods used for prevention of chemical degradation during storage of crude drugs. (5M)
11. Explain the nutrient requirements for maintenance of plant tissue culture. (5M)
12. State in brief on natural allergens. (5M)
13. Write the source, method of collection, chemical constituents and uses of Bees Wax. (5M)