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B.Pharm. 4th Semester End-Term (Regular) Examination

PHARMACOGNOSY AND PHYTOCHEMISTRY – I

(New Regulation)

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 (10 × 1 = 10)
- (i) Which of the following is obtained from mineral source?
- (a) Asbestos (b) Cotton
(c) Nylon (d) Wool
- (ii) Sennoside is an example of _____
- (a) C glycoside (b) O glycoside
(c) N glycoside (d) S glycoside
- (iii) Which micronutrient is essential for proper growth of plant cell?
- (a) Mg (b) Mn
(c) Ca (d) N
- (iv) Hydathode is known as special type of _____
- (a) Stomata (b) Trichome
(c) Palisade cell (d) Vein islet number
- (v) The sterilization of explant is done by using _____
- (a) Sodium hypochlorite (b) Mercuric chlorite
(c) Both (a) and (b) (d) None
- (vi) Number of Isoprene unit present in Sesquiterpenes
- (a) 2 isoprene unit (b) 3 isoprene unit
(c) 4 isoprene unit (d) 5 isoprene unit

[Turn over

(vii) Primary nutrients require for the proper growth and development of plants are

- (a) Nitrogen, Phosphorus, Potassium
- (b) Nitrogen, Magnesium, Potassium
- (c) Potassium, Calcium, Zinc
- (d) Manganese, Iron, Boron

(viii) Which plant hormone is responsible for ripening of fruits?

- (a) Gibberellins
- (b) Cytokinin
- (c) Ethylene
- (d) None

(ix) Which drug has a specific cell structure?

- (a) Senna
- (b) Tragacanth
- (c) Volatile oil
- (d) Honey

(x) The sugar part of glycoside is known as

- (a) Glycone
- (b) Aglycone
- (c) Diosgenin
- (d) None of above

B. Objective type questions

(10 × 1 = 10)

- (a) Define the term soil fertility.
- (b) Name any two resinous drugs and give their uses.
- (c) Explain the Murexide test.
- (d) Define Ash value and swelling index.
- (e) Give biological source and identification tests for beeswax.
- (f) Give salient features and applications of edible vaccine.
- (g) Discuss Urokinase and Gelatin in detail.
- (h) Discuss on Cell Suspension culture.
- (i) Mention the role of Pharmacognosy in homeopathic system of medicine.
- (j) Give complete pharmacognostic account of any one oil having cathartic property.

2. Answer any *Seven* from the following

(7 × 5 = 35)

- (a) Write a note on different methods of extraction of volatile oil.
- (b) Enumerate the nutritional requirement for plant tissue culture.
- (c) Differentiate between organized and unorganized crude drug with examples.
- (d) Write a note on Auxin and its application.

- (e) Write briefly about marine drugs.
- (f) Write short notes on :
 - (i) Mutation
 - (ii) Polyploidy.
- (g) Write about the microscopical evaluation of crude drug.
- (h) Write down biological source and therapeutic utility of the following drugs
Acacia, Castor Oil, Bees Wax, Cotton, Papain. (1 × 5 = 5)
- (i) Write a short note on Chaulmoogra oil and Jute. (2 × 10 = 20)

3. Answer any *Two* from the following

- (a) Illustrate the factors affecting cultivation of medicinal plants. (10)
- (b) Define Alkaloid. Give the classification, properties, identification test and uses of alkaloid. Write down the extraction process of alkaloid. (2+4+4)
- (c) Define crude drugs. Discuss the various types of classification of crude drugs with examples mentioning their merits and demerits. (2+8=10)