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2023 ✓

B.Pharm 4th Semester End-Term Examination

PHARMACOGNOSY AND PHYTOCHEMISTRY I

(New Regulation)

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Full Marks – 75

Time – Three hours

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

1. (A) Multiple Choice questions (10 × 1 = 10)
- (i) Which drug is not under the class of organized drug
- (a) Leaves (b) Flowers
- (c) Fruits (d) Gums
- (ii) Balsams contains mainly acids:
- (a) acetic acid + benzoic acid
- (b) cinnamic acid + hydrochloric acid
- (c) benzoic acid + sulphuric acid
- (d) benzoic acid + cinnamic acid
- (iii) Cocoa butter is adulterated with
- (a) Paraffin (b) Lard
- (c) Lime stone (d) Kokum butter
- (iv) Hemp and Jute are
- (a) Plant fibre (b) Animal fibre
- (c) Mineral fibre (d) Synthetic fiber

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- (v) Anomocytic stomata is
- (a) 2 guard cell covered by 2 subsidiary cell
 - (b) arrangement of subsidiary cell is at right angle
 - (c) guard cell covered by 3 subsidiary cells
 - (d) various no. of subsidiary cell
- (vi) Lycopodium spore method can be used to find out percentage purity of crude drugs which contain
- (a) Multi layered tissues or cells
 - (b) Well defined particles which can be counted
 - (c) Oil globules
 - (d) None of the above
- (vii) Example of biofertilizer is
- (a) *Penicillium notatum*
 - (b) *E. coli*
 - (c) *Salmonella typhimurium*
 - (d) *Agrobacterium rhizogenes*
- (viii) Edible vaccines are _____
- (a) Therapeutic
 - (b) Prophylactic vaccines
 - (c) Drug
 - (d) All of these
- (ix) Ash value of crude drug is evaluated to determine
- (a) Phytoconstituents present in crude drug
 - (b) Organic substance present in crude drug
 - (c) Inorganic substance present in crude drug
 - (d) Mucilage present in crude drug

(x) Tissue and cell cultured in a liquid medium (without agar) produce a: -

- (a) Callus culture
- (b) Suspension culture
- (c) Inorganic culture
- (d) Protoplast culture

(B) Fill up the blanks

- (a) Pepsin shows maximum activity at pH _____
- (b) Acacia is belonging to the family _____
- (c) Killer Killiani test is used to detect _____
- (d) _____ is the aromatic compound of Bees wax.
- (e) Shinoda test is specific for _____
- (f) Silk consists of _____
- (g) The callus is _____
- (h) Palisade ratio is defined as _____
- (i) _____ is an example of natural cytokinin.
- (j) Biological source of Castor oil is _____

2. Answer any seven from the following

(7 × 5 = 35)

- (a) Write about Homeopathy system of medicine. (5)
- (b) Describe the Stas-Otto method of extraction of alkaloid. (5)
- (c) Enumerate the factors influencing the cultivation of crude drugs. (5)
- (d) Write about ecuelle and enfleurage method with example. (2.5+2.5)
- (e) Explain about lycopodium spore method. (5)
- (f) Write notes on (2.5+2.5)
 - (i) Teratogens
 - (ii) Polyploidy

(g) Define plant hormone. Write about auxin. (1+4)

(h) Write down biological source and therapeutic utility of following drugs

Bromelain, Agar, Hemp, Wool Fat, Honey (5 × 1 = 5)

(i) Describe the application of plant tissue culture in pharmacognosy. (5)

3. Answer *any two* from the following (2 × 10 = 20)

(a) What are the processes of adulteration? Enumerate the physical and chemical evaluation of crude drugs. (4+3+3)

(b) Define Pharmacognosy. Write about development of pharmacognosy by giving historical background. (2+8)

(c) Write short notes on (5+5)

(i) Marine drugs

(ii) Morphological classification