

B.Pharm 1st Semester Exam., 2017**PHARMACOGNOSY—I**

Time : 3 hours

Full Marks : 70

Instructions :

- (i) The marks are indicated in the right-hand margin.
- (ii) There are **NINE** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question No. 1 is compulsory.

1. Attempt any seven of the following : 2×7=14

Choose the correct option :

(a) Which one of the following is the drug of mineral origin?

- (i) Trypsin
- (ii) Sinularin
- (iii) Salicin
- (iv) Bentonite

(b) Which one of the following is an example of carbohydrate?

- (i) Bees wax
- (ii) Pectin
- (iii) Ricinoleic acid
- (iv) Bentonite

(c) Which one of the following is not an example of Solanaceae?

- (i) *Datura*
- (ii) *Allium sativum*
- (iii) *Atropa belladonna*
- ~~(iv) *Capsicum*~~

(d) Cocoa butter as suppository base used in the formulations is obtained from

- (i) *Sesamum indicum*
- ~~(ii) *Theobroma cacao*~~
- (iii) *Arachis hypogaea*
- (iv) *Hydnocarpus wight*

(e) Which one of the following affects cultivation?

- (i) Rainfall
- (ii) Polyploidy
- ~~(iii) Greenhouse effect~~
- ~~(iv) All of the above~~

(f) Which one of the following is most frequently used method of pest control?

- (i) Mechanical method
- (ii) Chemical method
- ~~(iii) Biological method~~
- (iv) None of the above

State True or False :

- (g) Indole-3-acetic acid is a natural auxin.
- (h) Cod-liver oil should be protected from light as the vitamin A would be decomposed. *True.*
- (i) Stomatal number is the measurement of microscopic evaluation of drugs.
- (j) *Acacia senegal* belongs to the subfamily Mimosoideae.

2. Discuss in detail the different sources of natural drugs. 14

3. Write notes on any two of the following : 14

- (a) Starch
- (b) Wool fat
- (c) Bees wax

4. Explain the factors influencing cultivation of medicinal plants. 14

5. Write a detailed note on chemical and organoleptic method of evaluation. 10+4=14

6. Write notes on the following : 14

(a) Morphological classification

(b) Pharmacological classification

7. Discuss any four of the following : $3\frac{1}{2} \times 4 = 14$

(a) Crude drug

(b) Polyploidy

(c) Adulteration

(d) Quantitative microscopy

(e) Traditional medicine

8. Write source chemical constituents and use of any four of the following : $3\frac{1}{2} \times 4 = 14$

(a) Wool fat

(b) Lard

(c) Castor oil

(d) Isabgol

(e) Shark liver oil

9. Write an exhaustive note on plant tissue culture. 14

Write a detailed note on chemical and organoleptic method of evaluation