|                           | Utech                                       |
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| Name:                     |   |
| Roll No.:                 | In Photograph (V) Samplings (Said Sayulland |
| Invigilator's Signature : |   |

# CS / B.PHARM / SEPARATE SUPPLE / SEM-7 / PT-702 / 2011 2011

### **PHARMACOGNOSY**

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

### **GROUP - A**

### ( Multiple Choice Type Questions )

1. Choose the correct alternatives for any *ten* of the following:

 $10 \times 1 = 10$ 

- i) Eugenol is an example of
  - a) Diterpenoid
- b) Monoterpenoid
- c) Sesquiterpenoid
- d) none of these.
- ii) Which of the following alkaloid is red in colour?
  - a) Barbenine
- b) Nicotin
- c) Betanidine
- d) Ephidrine.

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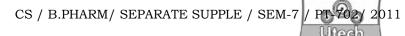
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|-------|--|----------------------|----|-----------------|--|
| iii)  | The sugar part of the glycoside is called  |                      |    |                 |  |
|       | a)   | aglycon              | b) | C-glycon        |  |
|       | c)   | glycon               | d) | D-glycon.       |  |
| iv)   | The type of glycoside present in senna is  |                      |    |                 |  |
|       | a)   | O-glycoside          | b) | C-glycoside     |  |
|       | c)   | N-glycoside          | d) | S-glycoside.    |  |
| v)    | Which of the following is the precusor for atrop biosynthesis?                           |                      |    |                 |  |
|       | a)   | Tyrosine             | b) | Tryptophan      |  |
|       | c)   | Ornithine            | d) | Serine.         |  |
| vi)   | Which of the following is used as antihypertensive drug?                                 |                      |    |                 |  |
|       | a)   | Vinca                | b) | Senna           |  |
|       | c)   | Raouwfia             | d) | Ergot.          |  |
| vii)  | The test for anthraquinone glycoside is  |                      |    |                 |  |
|       | a)   | Keller Killiani test | b) | Ligal test      |  |
|       | c)   | Baljet test          | d) | Brontager test. |  |
| viii) | i) Phylogeny means   |                      |    |                 |  |
|       | <ul><li>a) evolutionary relationship</li><li>b) evolution of phyto-constituent</li></ul> |                      |    |                 |  |
|       |  |                      |    |                 |  |
|       | c) evolution of crude drug   |                      |    |                 |  |
|       |  |                      |    |                 |  |

d)

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one type of tissue culture.

2



- ix) Following is a plant growth hormone
  - a) auxin

b) propanol

- c) butanol
- d) none of these.

- x) Morphin is
  - a) quinoline alkaloid
- b) isoquinoline alkaloid
- c) tropane alkaloid
- d) Indol alkaloid.
- xi) Tannin are available in
  - a) Myrobelon
- b) Vasaka
- c) Black catechu
- d) Carica papaya.

#### GROUP - B

### (Short Answer Type Questions)

Answer the following.

 $3 \times 5 = 15$ 

- 2. Explain the application of chemotaxonomy in classification of medical plant. 5
- 3. What do you mean by nutraceuticals? Discuss any two with example. 2 + 3
- 4. Define tissue culture. Explain the preparation of culture media of plant tissue culture. 2 + 3

#### **GROUP - C**

#### (Long Answer Type Questions)

Answer the following.

 $3 \times 15 = 45$ 

5. What are terpenoid? Classify with example. Write their properties and basic metabolic pathway for synthesis.

2 + 2 + 3 + 8

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6. What is the role of herbs in cosmetics? Name any four important herbs used in cosmetics preparation and write their botanical sources, family, chemical constituents.

3 + 2 + 10

7. Write short notes on

5 + 5 + 5

- a) Prebiotics
- b) Probiotics
- c) Natural antioxidant.

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