

Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/B.PHARM/SEM-7/PT-702/2009-10**

**2009**

**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 × 1 = 10

- i) Carotenoids gives a deep blue colour with
- a) conc. NaOH                      b) conc. HNO<sub>3</sub>
- c) conc. H<sub>2</sub>SO<sub>4</sub>                      d) none of these.
- ii) Which one of the following crude drugs as hypertensive drug ?
- a) Vinca                                  b) Senna
- c) Rauwolfia                              d) Ergot.
- iii) Serotaxonomy means
- a) Classification on the basis of protein
- d) Classification on the basis of minerals
- c) Classification on the basis of vitamin
- d) Classification on the basis of hormones.

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- x) Capsium is obtained from *Capsicum annum* belonging to the family
- a) Apocynaceae                      b) Solanaceae  
c) Liliaceae                            d) Aricaceae.
- xi) Sesquiterpene contains
- a) 5 carbons                            b) 10 carbons  
c) 15 carbons                          d) 12 carbons.
- xii) Which one of the following is an end product of shikimic acid pathway ?
- a) Tropic acid                          b) Phenylalanine  
c) Ornithine                            d) Mevalonic acid.

**GROUP – B**

**( Short Answer Type Questions )**

Answer any *three* of the following.                      3 × 5 = 15

2. Write about cultivation, collection and constituent of opium.
3. Name two marine drugs and their uses.
4. Write a brief note on herbal cosmetics.
5. Write down the structures of eugenol, β-carotene and vitamin A. Mention the categorized group under which they belong ? 3 + 2
6. Write the biogenesis of ergot alkaloids.

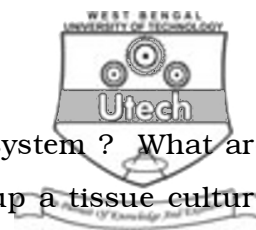
**GROUP – C**

**( Long Answer Type Questions )**

Answer any *three* of the following.                      3 × 15 = 45

7. Write a short notes on any *three* of the following :                      3 × 5 = 15
  - a) Prebiotics
  - b) Probiotics
  - c) Dietary fibres
  - d) Natural antioxidants.

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8. What are the nutrients in tissue culture system ? What are the minimum conditions required to set up a tissue culture laboratory ? 5 + 10
9. a) What are alkaloids ? Differentiate between true alkaloid, proto-alkaloid and pseudo-alkaloids. 1 + 2
- b) Write the source, biosynthetic pathway, chemical test, pharmacological activities and adverse effects of morphine. 7
- c) Discuss about the source and pharmacological activities of different chemical constituents individually obtained from plants containing tropane alkaloids. 5
10. a) Define glycosides. Classify them according to the glycosidic linkage. 1 + 2
- b) Write down the source, biosynthetic pathway and the pharmaceutical activities of diosgenin. 7
- c) Discuss the chemistry and pharmaceutical activity of sennosides. 5
11. What are alkaloids ? Explain the chemistry, biogenesis and pharmacological activity of atropine. 2 + 3 + 5 + 5
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