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Invigilator's Signature :	

CS/B.PHARM/SEM-7/PT-702/2010-11

2010-11 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)

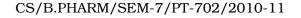
1. Choose the correct alternatives for any ten of the following :

 $10 \times 1 = 10$

i) "Eugenol" is an example of

- a) Diterpenoid b) Monoterpenoid
- c) Sesquiterpenoid d) None to these.
- ii) Which one of the following drug is rapidly acting blood schizontocides in the treatment of malaria ?
 - a) Artemisia Annua b) Artemisia Meritima
 - c) Artemisia Brevifolia d) None of these.
- iii) Which one of the following alkaloid is red in colour ?
 - a) Berbenine b) Nicotine
 - c) Betanidia d) Ephedrine.

[Turn over





- iv) The sugar part of glycoside is called
 - a) Aglycon b) C-glycon
 - c) Glycon d) D-glycon.

v) The type of glycoside present in senna is

- a) O-glycoside b) C-glycoside
- c) N-glycoside d) S-glycoside.

vi) Which one of the following is an example of contact allergen ?

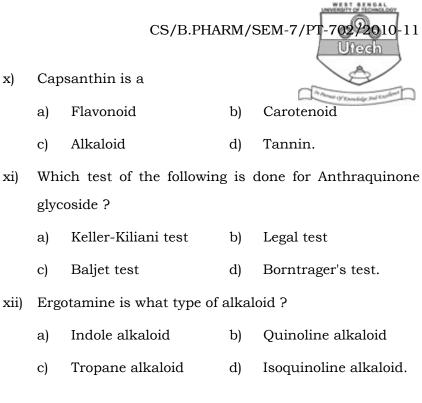
- a) Wall nut b) poisonivy
- c) Mold spores d) Rag weed.
- vii) Limonene is a
 - a) Monoterpene b) Diterpene
 - c) Triterpene d) Sesquiterpene.
- viii) Which one of the following is the precurser molecule for atropine biosynthesis ?
 - a) Tyrosine b) Tryptophan
 - c) Ornithine d) serine.

ix) Indian pennywort is commonly known as

- a) Bhringaraj b) Feverfew
- c) Amla d) Brahmi.

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GROUP – B

(Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$

- Explain the application of chemotaxonomy in classification of medicinal plants.
- 3. Write short note on inhalant and contactant allergens.
- 4. Write the biogenesis of "quinine".
- 5. What do you mean by nutraceuticals ? Discuss briefly any two nutraceuticals with example.
- 6. Write a note on Marine Toxin ?
- 7115 3 [Turn over

GROUP - C



(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

- Define alkaloids ? Mention their general properties. Discuss about the biosynthesis and pharmacological activity of vinca alkaloids.
 15
- 8. What are terpenoids ? Classify them with examples. Write their properties and the basic metabolic pathway involved for the synthesis of terpenoids.
 2 + 2 + 3 + 8
- 9. What is tissue culture ? What are the basic requirements for plant tissue culture ? Write down the advantages of plant tissue culture and its application in pharmacognosy.
- 10. What is cosmetic phytognosy ? Explain in detail any three herbs used in skin care preparations. 3 + 4 + 4 + 4
- 11. a) Explain the structural differences between α -carotenoid and β -caroteaoid.
 - b) Write a short note on cylotoxic agents obtained from marine sources. $7^1/_2 + 7^1/_2$