	Utech
Name:	
Roll No.:	As Assessed With Assessing a Paral Experience
Invigilator's Signature :	

## CS/B.PHARM(NEW)/SEM-2/PT-202/2012

## 2012

## **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) "Myristicin' is the active constituent of coriander a) b) ajowain cardamom. nutmeg d) On addition of HNO<sub>3</sub> on the T.S. of Nux vomica, crimson ii) colour is observed due to presence of a) strychnine brucine b) loganin d) vomicine.
- iii) Which of the following constituents is responsible for the sweet taste of Fennel?
  - a) Anethole b) Eugenol
  - c) Fenchone d) Gingerol.

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- iv) Salts of meconic acid are associated with
  - a) opium alkaloids
- b) indole alkaloids
- c) trapane alkaloids
- d) quinoline alkaloids.
- v) The melting point of Cocoa butter is
  - a) 34°C 44°C
- b) 30°C 33°C
- c) 75°C 85°C
- d) 62°C 65°C.
- vi) Gambier-fluorescin test is performed to distinguish between
  - a) Alexandrian Senna and Indian Senna
  - b) Sumatra benzoin and Siam benzoin
  - c) Black catechu and Pale catechu
  - d) Datura stramonium and Datura metal.
- vii) Ricinus communis belongs to which of the following families?
  - a) Linaceae
- b) Leguminoceae
- c) Oleaceae
- d) Euphorbiaceae.
- viii) Dinkum oil is obtained from
  - a) Foeniculum vulgare
  - b) Pelargonium graveolens
  - c) Chenopodium ambrosioides
  - d) Eucalyptus globulus.
- ix) Match-stick test is done for the identification of
  - a) pale catechu
- b) black pepper

c) aconite

- d) castor oil.
- x) Lignified trichomes are generally present in
  - a) tea plant
- b) cannabis
- c) nux vomica
- d) lobelia.

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- xi) How many primary ridges are seen in coriander fruit
  - a) 10

b) 6

c) 5

- d) 12.
- xii) 'Keller Killiani' test is performed for the identification of
  - a) cardiac glycosides
  - b) alkaloids
  - c) tannins
  - d) anthraquinone glycosides.

### GROUP - B

### (Short Answer Type Questions)

Answer any three of the following

 $3 \times 5 = 15$ 

2. Write a short note on Isaphgula and define swelling index.

4 + 1

- 3. Write a short note on lycopodium spore method.
- 4. Write a note on the pharmacological classification of crude drugs.
- 5. State the importance of Extractive value and Ash value in consideration with the evaluation of crude drugs.
- 6. What are carminatives? Mention details of the Fennel fruit.

2 + 3

### GROUP - C

## (Long Answer Type Questions)

Answer any three of the following.

 $3 \times 15 = 45$ 

- 7. a) What is opium? Explain the method of cultivation of opium. 2 + 5
  - b) What is ergot? Explain the life cycle of ergot.

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2 + 6

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- 8. a) What is the scientific name of Aloe. Write down the chemical constituents, various chemical tests and uses of Aloe.
  - b) Mention the chemical constituents and therapeutic uses of cannabis.
  - c) What is Borntrager's test.

7 + 5 + 3

9. a) Define cardiotonic.

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- b) Mention the biological source, distribution, organoleptic, microscopic, chemical constituents and uses of Digitalis.
- c) Mention the interrelationship of glycosides of *Digitalis* purpurea and *Digitalis lanata*. 3
- 10. Write in short biological source, family, chemical constituents and uses of following drugs :  $3 \times 5$ 
  - a) Vasaka
  - b) Rhubarb
  - c) Ipecacuanha.
- 11. a) Distinguish between Alexandrian Senna and Tinnevelley Senna.
  - b) What are palisade ratio and stomatal index? What are stomatal number, vein-islet number and vein-termination number? 1 + 1 + 1 + 1 + 1
  - c) Write a short note on Sandal wood. 5

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