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# CS/B.PHARM (OLD)/SEM-4/PT-402/2010 2010

### **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) Castor oil is a
  - a) volatile oil
- b) fixed oil
- c) mineral oil
- d) none of these.
- ii) Which of the following is present in gall?
  - a) Alkaloid
  - b) Saponin
  - c) Tanic acid
  - d) Vitamin *B* complex group.

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- iii) A drop of iodine water placed on a piece of Indian Squill producesa) reddish-purple colourb) green colour
  - c) pale yellow colour
  - d) none of these.
- iv) Myrrh belongs to which of the following category?
  - a) Acid resin
- b) Ester resin
- c) Resin alcohol
- d) None of these.
- v) Aristha and Asavas are
  - a) liquid preparations
- b) tablets
- c) ointments
- d) powders.
- vi) Amla belongs to
  - a) Rotaceae
- b) Euphorbiaceae
- c) Umbelliferae
- d) None of these.
- vii) The principal constituent of Caraway oil is
  - a) Carvone
- b) Camphor
- c) Comphene
- d) Eucalptol.
- viii) Volatile oils are secreted in special structures called

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- a) Cell sap
- b) Schizogenous glands
- c) Trichomes
- d) Vacuoles.
- ix) Which one of the following is used as a counter irritant?
  - a) Eucalyptus oil
- b) Lemon grass oil
- c) Orange peel
- d) Peppermint oil.
- x) What is the biological name of Ginseng?
  - a) Panax japonica
- b) Glycyrrhiza glabra
- c) Hydrocotyle asiatica
- d) Polygala senega.

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- xi) Which of the following volatile oils is obtained from animal source?
  - a) Dill oil

- b) Spearmint oil
- c) Cassia oil
- d) Musk oil.
- xii) Tolu Balsam is obtained by incision from the trunk of
  - a) Myroxylon balsamum b)
- ) Capsicum
  - c) Asafoetida
- d) Myrrh.

#### **GROUP - B**

### (Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$ 

- 2. Write a short note on natural colours.
- 3. Distinguish between:
  - a) Raw cotton and absorbent cotton
  - b) Cotton from silk.
- 4. Briefly explain Gold Beaters skin test.
- 5. Write a note on gelatin.
- 6. What is the difference between a volatile oil and a fixed oil? Write down the constituents of Gaultheria oil.

### GROUP - C

### (Long Answer Type Questions)

Answer any *three* of the following.

 $3 \times 15 = 45$ 

- 7. Write notes on the different traditional system of Ayurvedic preparation ( any *three* ):  $3 \times 5$ 
  - a) Aristha

b) Asavas

c) Tailas

d) Bhasmas.

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#### CS/B.PHARM (OLD)/SEM-4/PT-402/2010 8. a) Define Tanin, classify tanin with example. Write down the general characteristics of tanin. b) c) Differentiate between pale and black catechu. 3 Write a short note on Myrobalan. 4 d) 9. Define resins. Classify resins with examples. 2 + 3a) Write down the genral characteristics of resins. 3 b) 2 How are resins isolated? c) d) Write the chemical constituents and uses of any two of the following: $2 \times 2^{\frac{1}{2}}$ i) Cannabis Tolu balsam ii) iii) Podophyllum. 10. a) Write a detailed note on the general methods for obtaining volatile oils from plants. 8 b) Draw the skeleton structure of isoprene. 1 Mention the biological source, macroscopy, constituents c) and uses of Citronella and Eucalyptus. 11. Write short notes, specifically mentioning their common vernacular names, biological sources, chief constituents pharmacology, common uses and marketed formulations on any three of the following: $3 \times 5$ Guggal a) b) Punarnava c) Brahmi d) Arjuna

f)

Neem.

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Shilajit

e)