



Name :

Roll No. :

Invigilator's Signature :

CS/B.PHARM(NEW)/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 :

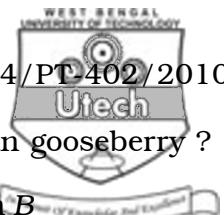
$$10 \times 1 = 10$$

- i) The main constituent of talc is
 - a) Calcium carbonate
 - b) Hydrated aluminium silicate
 - c) Hydrated magnesium silicate
 - d) Zinc oxide.

- ii) 'Oil of Wintergreen' is obtained from
 - a) *Gaultheria procumbens*
 - b) *Cymbopogon citratus*
 - c) *Pelargonium graveolens*
 - d) *Eucalyptus globulus*.



- iii) Vegetable fibres in presence of $\text{Cu}_2\text{O}-\text{NH}_4\text{OH}$ solution produce
- a) red colour
 - b) yellow colour
 - c) blue colour
 - d) orange colour.
- iv) Sumatra Benzoin belongs to the family
- a) Pinaceae
 - b) Solanaceae
 - c) Styraceae
 - d) Leguminosae.
- v) Which of the following types of glycoside is present in senega ?
- a) Cardiosterol
 - b) Anthraquinone
 - c) Saponin
 - d) Others.
- vi) Bitter orange peel is obtained from *Citrus aurantium* belonging to the family
- a) Umbelliferae
 - b) Rutaceae
 - c) Lauraceae
 - d) Labiateae.
- vii) Which one of the following drugs belongs to combretaceae family ?
- a) Bilva
 - b) Amla
 - c) Ashoka
 - d) Arjuna.
- viii) Which one among the following is a cardioactive sterol ?
- a) Cascara
 - b) Thevetia
 - c) Diosurea
 - d) Sarsaparilla.
- ix) Acid resin 'Abeitic acid' is present in
- a) Colophony
 - b) Myrrh
 - c) Copiaba
 - d) Benzoin.
- x) Psoralea fruit contains type glycoside.
- a) Furano-coumarin
 - b) Steroidal
 - c) Saponin
 - d) Terpenoidal.



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xi) Which of the following is present in Indian gooseberry ?

- a) Solasodine b) Vitamin B
c) Ascorbic acid d) Gentiopec.

xii) Which of the following glycosides is the combination of *o*-glycoside and *c*-glycoside ?

- a) Cascarioside b) Sennoside-A
c) Barbaloin d) Peruvoside.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. Write a short note on the pharmacognosy of gelatin.
3. What are any *five* of the following ?
 - a) Aristha & Asvas b) Gutikas
 - c) Tailas d) Bhasmas
 - e) Churna f) Lehyas.
4. Mentioning the biological source, write down the method to obtain gall.
5. Write the biological source, family, chemical constituents and uses of the following drugs :
 - a) Amla b) Colophony
 - c) Podophyllum d) Gambir
 - e) Psoralea.
6. Explain Enfleurage method of extraction of volatile oil.



GROUP – C

(Long Answer Type Questions)

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

7. a) What are plant fibres ? Explain in detail about the source, family, method of preparation, constituents, chemical tests and uses of cotton wool. 2 + 10
 b) Write a short note on polyester. 3

8. Write in detail with vernacular names, biological source, chemical constituents and pharmacological activities of any five of the following : 5 × 3

i) Satavari	ii) Punarnava
iii) Gokhru	iv) Sankhapushpi
v) Guggul	vi) Gymema.

9. a) What do you mean by balsam ? 1
 b) Classify resins with example. 2
 c) Write the biological source, chemical constituents, morphological characters and use of any three of the following crude drugs : 3 × 4

i) Turmeric	ii) Ginger
iii) Asafoetida	iv) Capsicum.

10. Write the skeleton structure of isoprene unit. What is the difference between fixed oil and volatile oil ? What are physical parameters for evaluation of fixed oil and volatile oil ? Write the method of obtaining eucalyptus oil. 1 + 3 + 5 + 6

11. a) Classify tannin with examples. 5
 b) Write down the chemical tests to differentiate between the following : $3 \times 1 \frac{1}{2}$

i) True tannin & Pseudo-tannin
ii) Pale catechu & Black catechu
iii) Hydrolysable tannin & Condensed tannin.

c) Write the biological source of Myrrh and Myrobalan. 2 + 2
 d) Write the use of myrobalan. $1 \frac{1}{2}$