

Name :

Roll No. :

Invigilator's Signature :

CS/B.PHARM/SEM-2/PT-202/2013

2013

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

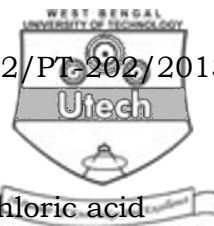
- i) Bronchodialating effect of *Adhatoda vasica* is due to
 - a) adhatoic acid
 - b) vasicine
 - c) vasicinone
 - d) none of these.
- ii) Narcotic effect of nutmeg is due to
 - a) myristicin
 - b) elimicin
 - c) safrole
 - d) all of these.
- iii) The esters of unsaturated fatty acids of hydrocarpic acid are available in
 - a) clove oil
 - b) chaulmoogra oil
 - c) mustard oil
 - d) eucalyptus oil.

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[Turn over



- iv) What colour is produced when *Zanzibar aloe* is treated with nitric acid ?
- Yellowish brown
 - Pale brownish
 - Deep brownish red
 - Brown changes to green colour.
- v) Withanolides are found in
- ashwagandha
 - hyoscyamus
 - rhubarb
 - aconite.
- vi) Vinca alkaloids are isolated from
- Catharanthus roseus* and contain indole and indoline moiety
 - Rosco chromogens* and contain indole and indoline moiety
 - Catharanthus roseus* and contain quinoline quinaldine
 - Catharanthus indicus* and contain indole and quinoline alkaloids.
- vii) What type of trichome is present in vasaka leaf ?
- Covering
 - Glandular
 - Hydathode
 - both (a) and (b).
- viii) Which one of the following drugs contains 'Proto' alkaloids ?
- Colchicum
 - Ephedrine
 - Atropine
 - both (a) and (b).
- ix) *Ailanthus glandulosa* is the adulterant of which of the following drugs ?
- Aconite
 - Ephedra
 - Belladonna
 - Opium.



- x) Colchicine gives yellow colour with
- a) ferric chloride
 - b) hydrochloric acid
 - c) sulphuric acid
 - d) sodium hydroxide.
- xi) Shark liver oil, when treated with chloroform and sulphuric acid, it acquires
- a) light purple changing to brown to violet
 - b) light brown changing to purple to violet
 - c) light violet changing to purple to brown
 - d) light violet changing to brown to purple.
- xii) Van-Urk's reagent is chemically
- a) methylaminodibenzaldehyde
 - b) methylaminobenzaldehyde
 - c) *p*-dimethylaminobenzaldehyde
 - d) *p*-dimethylbenzaldehyde.

GROUP – B

(Short Answer Type Questions)

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

2. Differentiate between fixed oil and volatile oil.
3. Write a note on the method of cultivation and collection of latex from opium poppy.
4. Explain the various parameters of microscopic evaluation of leaf drugs.
5. Define crude drug. Write a short note on morphological and chemical classification of crude drugs. 1 + 2 + 2
6. Explain the morphology of coriander fruit with the help of a neat labelled diagram.



GROUP – C

(Long Answer Type Questions)

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

7. What is purgative ? Mention the biological source, chemical constituents, morphology, microscopy and use of any one stimulant purgative. Mention the biological source, preparation and morphology of 4 types of aloe.
 $3 \times 15 = 45$
8. What is the biological source of Digoxin ? Write a pharmacognostic note on the plant which is the source of Digoxin. What are the different glycosides present in *Digitalis purpurea* ? What is Keller-Killiani test ?
 $1 + 6 + 5 + 3$
9. What is the source of Ergol ? Explain its life cycle with diagrammatic representation. Mention its morphology, chemical nature and uses.
 $2 + 10 + 3$
10. Define drug adulteration. Explain the various types of commonly used adulterants in place of original crude drugs and what are the various techniques to maintain the purity & quality of original crude drugs ?
 $2 + 5 + 8$
11. Write short notes on any *three* of the following : 3×5
 - a) Active constituents of Linchora and its uses
 - b) Chinese system of Medicine (Principle)
 - c) Chemical constituents and uses of Vinea and Chaulmoogra oil
 - d) The part used, biological source, chemical constituents and use of Neem.

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