



Name :

Roll No. :

Invigilator's Signature :

CS/B.PHARM/SEM-8/PT-802/2011

2011

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)

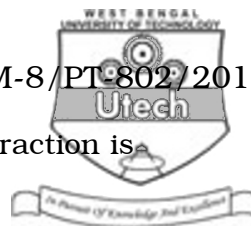
1. Choose the correct alternatives for any *ten* of the following :

10 × 1 = 10

- i) The TS of belladonna leaf shows which of the following type of stomata ?
- a) Anomocytic b) Paracytic
- c) Diacytic d) Anisocytic.
- ii) The composition of 'Marme' is
- a) Potassium mercuric iodide
- b) Picric acid
- c) Bismuth potassium iodide
- d) Cadmium potassium iodide.

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[Turn over



- ix) The gas used in supercritical fluid extraction is
- a) N_2 (Nitrogen)
 - b) He (Helium)
 - c) SO_2 (sulphur dioxide)
 - d) None of these.
- x) Which one of the following is used as a spraying reagent for phenolic compounds ?
- a) Benzoic acid
 - b) Ninhydrin
 - c) Ferric chloride
 - d) Vanillin- $H_7 SO_4$.
- xi) Which one of the following crude drug belongs to the family 'Solanaceae' ?
- a) Physostigma
 - b) Duboisia
 - c) Ephedra
 - d) Catharanthus.
- xii) Chemically "Ephedrine" is
- a) 2-phenyl-1-hydroxy-2-methyl propane
 - b) 1-phenyl-1-hydroxy-2-methyl amino propane
 - c) 3-phenyl-2 hydroxy-1-methyl amine
 - d) 1-methoxy-2-hydroxy-3-phenyl amino propane.

GROUP – B

(Short Answer Type Questions)

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

2. Discuss the advantages and disadvantages of maceration.
3. How will you differentiate between cardenolides and butadienolides by chemical tests ?

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4. Classify plant bitter principles and explain in detail about any one plant bitter constituent. 1 + 4
5. Explain the morphological and microscopical character of Pilocarpus with neat labeled diagram. 2 + 3
6. Define paper chromatography. Differentiate between HPLC and HPTLC. 2 + 3

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. 3 × 15 = 45

7. Write the Biological Source, Morphological characters, specific chemical test and uses any three of the following drug : 3 × 5
- a) Colchicum
 - b) Catharanthus
 - c) Datura
 - d) Tobacco.
8. Describe schematically the biogenetic pathways of atropine and morphine.
9. Classify Flavonoids. Discuss elaborately about the phytochemical screening of Flavonoids.
10. Define 'Extraction'. Briefly enumerate the different extraction procedures of phytoconstituents. Discuss the factors influencing the extraction of crude drugs. 2 + 7 + 6
11. Write notes on the following : $7 \frac{1}{2} + 7 \frac{1}{2}$
- i) Thin layer chromatography.
 - ii) Gas liquid chromatography.