



Name :

Roll No. :

Invigilator's Signature :

CS/B. Pharm (Old)/SEM-7/PT-702/2011-12

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 molecular formula of isoprene unit is
- | | |
|-------------------|-------------------|
| a) $C_{15}H_{24}$ | b) $C_{10}H_{16}$ |
| c) C_5H_8 | d) C_5H_{10} |
- ii) Quinidine is
- | | |
|-----------------|-------------------|
| a) Antimalarial | b) Antiarrhythmic |
| c) Anticancer | d) Antiulcer. |
- iii) Vitali morin test is for
- | |
|----------------------------|
| a) Indole alkaloid |
| b) Anthraquinone glycoside |
| c) Tropane alkaloid |
| d) Quinoline alkaloid. |

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- iv) Morphine is
- a) Quinoline alkaloid b) Isoquinoline alkaloid
c) Tropane alkaloid d) Indole alkaloid.
- v) Sennosides are
- a) S-glycosides b) N-glycosides
c) O-glycosides d) C-glycosides.
- vi) Atropine is formed by esterification of
- a) Tropine & Atropic acid b) Tropane & Tropic acid
c) Tropine & Tropic acid d) None of these.
- vii) Diterpenes are composed ofnumber of isoprene units.
- a) 2 b) 3
c) 4 d) 6.
- viii) Which type of Auxin in natural ?
- a) IBA b) NAA
c) IAA d) All of these.
- ix) Diosgenin is
- a) a carbohydrate b) a glycoside
c) an alkaloid d) a triterpenoid.
- x) Henna is used as
- a) Antioxidant
b) Cardiovascular agent
c) Antimicrobial
d) None of these.

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- xi) Anthopleurin & Laminin act as
- a) Anticancer agent
 - b) Cardiovascular agent
 - c) Antimicrobial agent
 - d) None of these.
- xii) Geraniol is
- a) Acyclic monoterpene
 - b) Monocyclic monoterpene
 - c) Diterpene
 - d) Triterpene.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following.

3 × 5 = 15

2. What are photosensitizing agents ? Write the details of a photosensitizing agent from a natural source. 1 + 4
3. Write a short note on herbs as health food.
4. What is Marine pharmacognosy ? Write the various medicinal agents obtained from marine sources. 1 + 4
5. What do you know about callus culture & suspension culture ?
6. Write a short note on chemotaxonomy & Applications in pharmacognosy.

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GROUP - C

(Long Answer Type Questions)

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

7. What are terpenes & terpenoids ? Give the general formula of terpenes. What is isoprene rule ? Write the biogenetic relationship of various terpenes. Give one name each of monoterpene & sesquiterpene. $2 + 1 + 2 + 8 + 2$
8. What are glycosides ? Write properties of glycosides. Write biogenesis & activity of sennosides. $2 + 2 + 9 + 2$
9. What are alkaloids ? Write chemistry, biogenesis of Atropine & Ephedrine. $2 + 8 + 5$
10. What is Plant tissue culture ? Write ideal media requirements of PTC. Write the applications of PTC. $2 + 9 + 4$
11. Write short notes on any *three* of the following : $5 + 5 + 5$
- a) Surface sterilization
 - b) Carotenoids
 - c) Amla in cosmetics
 - d) Ara-C.

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