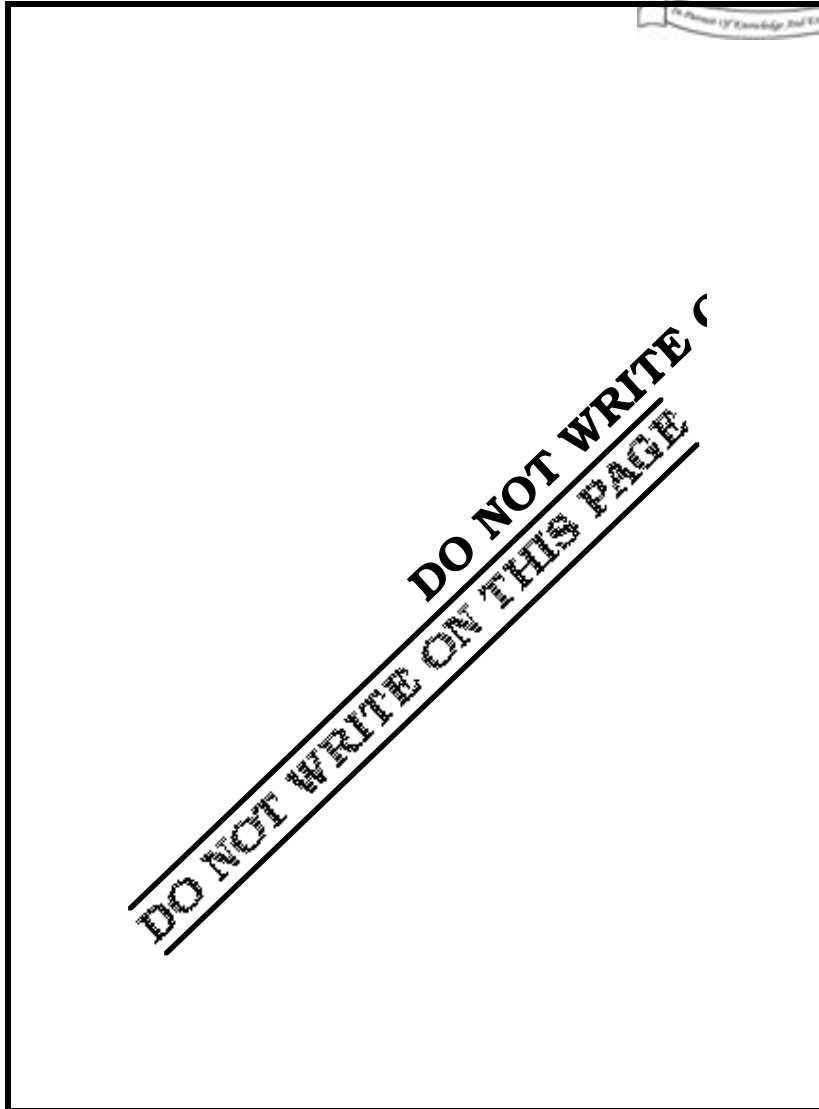




In Pursuit Of Knowledge And Excellence



<http://www.makaut.com/>

2370 (13/06)

<http://www.makaut.com/>



ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE - 2009

PHARMACOGNOSY

SEMESTER - 2



Time : 3 Hours]

[Full Marks : 70

GROUP - A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for any *ten* of the following : 10 × 1 = 10

i) Which one of the following is the source of Vitamin A ?

a) Curcuma

b) Guggul

c) Shark Liver oil

d) Aloes.

ii) Stomatal index is

a) $\frac{S + E}{S} \times 100$ b) $\frac{S}{E + S} \times 100$ c) $\frac{S + S}{E} \times 100$ d) $\frac{E}{S + S} \times 100.$

iii) Which one of the following is used as 'Antitussive' ?

a) Tulsi

b) Vinca

c) Curcuma

d) Colchicum.

iv) Which one of the following is an 'Amino' alkaloid ?

a) Vasaka

b) Ephedra

c) Vinca

d) Neem.

v) Alkaloids in cinchona bark are detected by

a) Nessler's test

b) Thalleoquin test

c) Iodine test

d) Leibermann-Burchard test.

2370 (13/06)



vi) Black catechu contains

a) Acacatechin

b) Hyosyamine

c) Cannabidiolic acid

d) none of these.



vii) The esters of unsaturated fatty acids of hydrocarpic acid are available in

a) Clove oil

b) Chaulmoogra oil

c) Mustard oil

d) none of these.

viii) Reserpine is chemically

a) an alkaloid

b) a flavonoid

c) a steroid

d) a carbohydrate.

ix) Lignified trichomes can be seen in T.S. of

a) Senna

b) Nux Vomica

c) Vinca

d) Rauwolfia.

x) Diacetyl morphine is

a) Codeine

b) Heroin

c) Papaverine

d) Thebaine.

xi) Digoxin is found in

a) *Digitalis purpurea*

b) *Digitalis lanata*

c) *Digitalis thapsi*

d) *Digitalis lutea*.

xii) Senna contains which type of Phytoconstituents ?

a) Alkaloids

b) Steroidal glycosides

c) Terpenoids

d) Anthraquinone glycosides.



GROUP – B

(Short Answer Type Questions)



Answer any *three* of the following questions.

3 × 5 = 15

2. Explain the histological and organoleptic characters of 'clove flower bud' with neat labelled diagram. 3 + 2
3. What is a carminative ? What are the biological sources, chemical constituents and uses of clove and ajowan ?
4. What are palisade ratio and stomatal index ?
5. Write biological source, chemical constituents and uses of a drug which has got central analgesic activity.
6. Write about the morphological and microscopical characters of Coriander fruit with diagram.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following questions.

3 × 15 = 45

7. What do you mean by Drug evaluation ? Write in short about the techniques used during drug evaluation from natural sources.
8. Write notes on any *two* of the following : 2 × 7 $\frac{1}{2}$
 - a) Active constituents of Cinchona and its uses
 - b) Alkaloids of Opium
 - c) Active constituents of Ergot alkaloids.
9. What are crude drugs ? What are the differences between organized and unorganized drugs ? What are the various systems of classification of crude drugs ? Which one of the classifications do you consider to be the best and why ?



10. Write the parts used, scientific name, family, chemical constituents and uses of any *three* of following :

3 × 5



- i) Nux Vomica
- ii) Ergot
- iii) Vasaka
- iv) Cinchona.

11. What do you mean by purgatives ? Discuss the biological source, geographical source, organoleptic character, chemical constituents, chemical tests and uses of Isabgol. Why are isabgol husks preferred to seeds. Give your answer with proper justification.

1 + 12 + 2

END