



Name :

Roll No. :

Invigilator's Signature :

CS/B.Pharm (NEW)/SEM-4/PT-402/2011

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) Asafoetida is also known as

- a) Rosin
- b) Hemp
- c) Loban
- d) Devil's dung.

ii) The lactone ring in bufadienolides is attached to
steroidal nucleus through position

- a) C-3 β
- b) C-17 β
- c) C-17
- d) C-3.

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iii) On dry distillation Gallic acid gets converted to

- a) Glucogallin b) Pyrogallol
- c) Ellagic Acid d) Catechu.

iv) Kaolin is a purified native form of

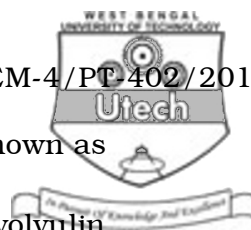
- a) Hydrated aluminium silicate
- b) Hydrated magnesium silicate
- c) Aluminium hydroxide
- d) Aluminium oxide.

v) Ophelic acid is present in

- a) Gentian b) Chirata
- c) Quassia d) None of these.

vi) The volatile oil having sesquiterpenoid is

- a) Citronella oil
- b) Mentha oil
- c) Eucalyptus oil
- d) Sanalwood oil.



- vii) The ether insoluble part in Jalap is known as
- a) Jalapin
 - b) Convolvulin
 - c) Ipurganol
 - d) Exogonic acid.
- viii) What happens when mentha oil is treated with glacial acetic acid containing 0.3% nitric acid and heated in boiling water ?
- a) Blue colour fades to colourless
 - b) Appearance of blue colour
 - c) Blue colour fades to golden yellow
 - d) Blue colour fades to violet.
- ix) Which of the following is used as expectorant ?
- a) Balsam of peru
 - b) Podophyllum
 - c) Balsam of tolu
 - d) Asafoetida.
- x) Which of the following will give positive modified Borntrager test ?
- a) Senna
 - b) Cascara
 - c) Strophanthus
 - d) Senega.

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xi) Madhunashini is the Sanskrit name of

- a) Chitrak
- b) Palash
- c) Apamarg
- d) Gymnema.

xii) Which of the following drug belongs to the Acarhaceae family ?

- a) Purarnava
- b) Vasaka
- c) Bael
- d) All of these.

GROUP – B
(Short Answer Type Questions)

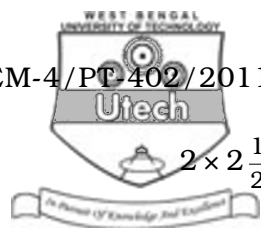
Answer any *three* of the following. $3 \times 5 = 15$

2. Write about methods of preparation, uses and examples of Asava & Arista.

3. Write the biological source, family, constituents and uses of the following drugs : 5×1

- a) Dill
- b) Turmeric
- c) Citronella
- d) Musk
- e) Myrobalan.

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4. Write short notes on the following :

$2 \times 2 \frac{1}{2}$

- a) Goldbeater's skin test
- b) Gambier-fluorescein test.

5. Write a brief note on natural colours.

6. State the biological sources, chemical constituents and uses of Arjuna & Asoka.

GROUP – C

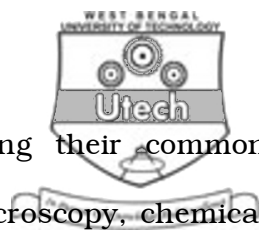
(Long Answer Type Questions)

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

7. What is Indian hemp ? Write the biological source, macroscopy, chemical constituents, identification tests & uses of Indian hemp. Write a note on various narcotic substances obtained from it. Write about the Government regulations & purposes of cultivation of Indian hem. Why female plants are selected for the preparations of narcotic substances ?

$1 + 8 + 3 + 2 + 1$

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8. Write short notes, specifically mentioning their common vernacular names, biological sources, macroscopy, chemical constituents & uses of any *five* of the following : 5×3

- a) Amla
- b) Brahmi
- c) Methi
- d) Shilajit
- e) Kantikari
- f) Bach
- g) Guggal.

9. What is glycoside ? Write down the biological source, macroscopic characteristics, chemical constituents and use of one saponin glycoside and one anthraquinone glycoside. Write in brief on bufadienolide and cardenolide type of cardioactive sterols. $1 + (2 \times 5) + 4$

10. What are the volatile oils chemically ? Classify volatile oil with examples. Write in detail about the extraction procedures of volatile oil from plants. $2 + 4 + 9$

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11. a) Classify fibres with examples.
- b) Write short notes on the following :
- i) Absorbent cotton
 - ii) Nylon
 - iii) Asbestos
 - iv) Glass-wool.
- c) Distinguish between wool and silk.

$$3 + \left(4 \times 2\frac{1}{2} \right) + 2$$

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