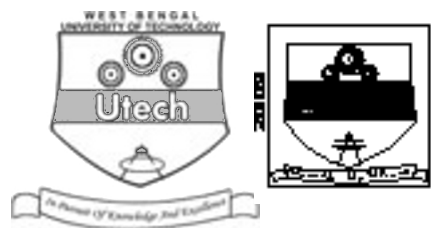


ADVANCED PHARMACOGNOSY (SEMESTER - 6)

CS/B.PHARM/SEM-6/PT-610A/09



1.
Signature of Invigilator

2.
Signature of the Officer-in-Charge

Reg. No.

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Roll No. of the
Candidate

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CS/B.PHARM/SEM-6/PT-610A/09

ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009

ADVANCED PHARMACOGNOSY (SEMESTER - 6)

Time : 3 Hours]

[Full Marks : 70

INSTRUCTIONS TO THE CANDIDATES :

1. This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
2. a) In **Group – A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.
b) For **Groups – B & C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group – B** are Short answer type. Questions of **Group – C** are Long answer type. Write on both sides of the paper.
3. **Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
4. Read the instructions given inside carefully before answering.
5. You should not forget to write the corresponding question numbers while answering.
6. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
7. **Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
8. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.
9. Rough work, if necessary is to be done in this booklet only and cross it through.

No additional sheets are to be used and no loose paper will be provided

FOR OFFICE USE / EVALUATION ONLY

Marks Obtained

	Group – A										Group – B					Group – C					Total Marks	Examiner's Signature
Question Number																						
Marks Obtained																						

.....
Head-Examiner/Co-Ordinator/Scrutineer

6870 (15/06)



On the Path of Knowledge And Excellence

DO NOT WRITE ON THIS PAGE



ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009

ADVANCED PHARMACOGNOSY

SEMESTER - 6



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) Rf value in chromatography means

a) Relative to front

b) Refraction factor

c) Readymade factor

d) Record factor.

ii) Out of the following solvents which one possesses maximum polarity ?

a) Di-ethyl ether

b) *n*-propanol

c) Acetone

d) Methanol.

iii) Libbermann-Burchard's test is done for identification of

a) Carbohydrate

b) Protein

c) Volatile oil

d) Triterpenes and Steroids.

iv) Volatile oils are generally composed of

a) Alkaloids

b) Mono and sesquiterpenes

c) Polyphenolic compounds

d) Glyceryl ester of fatty acids.

v) Silica gel G is composed of

a) Silica gel with iodine

b) Silica gel with barium chloride

c) Silica gel and calcium sulphate

d) Silica gel with binder. **6870 (15/06)**



vi) Who developed Homeopathic system of medicine ?

a) Bentham and Hooker

b) Swede Linnaeus

c) Voehl. Tschirch

d) Samuel Hahnemann.



vii) What is deterioration ?

a) Addition of one article to another

b) Improvement in the quality of the drug

c) Impairment in the quality of the drug

d) Substitution.

viii) What is the ratio of adsorbent and water to form a slurry of silicagel G for TLC ?

a) 1 : 2

b) 1 : 1

c) 1 : 1.5

d) 1 : 3.

ix) What is silicagel GF ?

a) Silicagel G without binder

b) Silicagel G with binder

c) Silicagel G with binder and fluorescent indicator

d) Silicagel G without binder and fluorescent indicator.

x) What do you mean by Morphology ?

a) Description of the form

b) Study of the form of a object

c) Fracture of the drug

d) All of these.



5

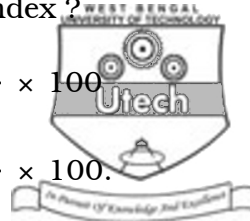
xi) Which equation is used for calculating stomatal index ?

a) $\frac{S}{E + S} \times 100$

b) $\frac{E}{S + S} \times 100$

c) $\frac{E}{E + E} \times 100$

d) $\frac{E + S}{S} \times 100$



xii) What do you mean by deterioration ?

a) Debasement

b) Impairment

c) Admixture

d) Spoilage.

GROUP – B**(Short Answer Type Questions)**Answer any *three* of the following questions.

3 × 5 = 15

2. What do you mean by adulteration and deterioration of herbal drugs ? Explain various factors affecting / influencing the deterioration of herbal drugs. 2 + 3
3. Explain pharmacological screening of herbal drugs with an example.
4. Write short notes on maceration.
5. Enumerate the basic difference between TLC and HPTLC. What are the detecting agents for the identification of TLC chromatogram ? 3 + 2
6. What do you mean by pyrexia ? How is it induced in rat model ? Explore the model for evaluation antipyretic effect of crude phytoextracts. 1 + 2 + 2

GROUP – C**(Long Answer Type Questions)**Answer any *three* of the following questions.

3 × 15 = 45

7. Write in details about the effect of solvents and solvent mixtures in the preparation of phytopharmaceuticals from natural sources.
8. Write short notes on the following : 2 × 7 $\frac{1}{2}$
 - a) Sampling procedure
 - b) Drug discovery from natural products.

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9. a) What do you mean by extraction ? Explain the basic principle involved in extraction. 2 + 5
- b) What are the pre-extraction operations to be carried out for crude drugs ? 5
- c) Write a note on treatment of dry residue after extraction. 3
10. Write a note on Indigenous system of medicines with emphasis on Ayurveda.
11. a) Explain the principle involved in thin layer chromatography. 5
- b) Explain the preparation and activation of TLC plates. 5
- c) Write a note on detecting or visualizing agents used in TLC. 5
12. What factors control the microbial contamination of herbal products ? Mention the type of contaminants and the tests to be undertaken for their detection. Suggest suitable measures to be taken to eradicate such problems to get quality products. 4 + 5 + 6

END