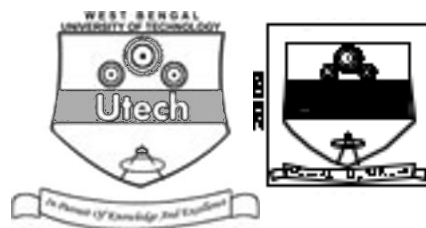


PHARMACOLOGY (SEMESTER - 6)

CS/B.PHARM/SEM-6/PT-608/09



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-608/09
ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009
PHARMACOLOGY (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						
Question Number																Total Marks	Examiner's Signature
Marks Obtained																	

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

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ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009
PHARMACOLOGY
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) Triple response is a characteristic of
- | | | |
|------------------|----------------|--------------------------|
| a) Dobutamine | b) Histamine | |
| c) Prostaglandin | d) Lukotriene. | <input type="checkbox"/> |
- ii) Which of the following is a type of bioassay ?
- | | | |
|-------------------|-------------------|--------------------------|
| a) Threshold type | b) Graded type | |
| c) Both (a) & (b) | d) None of these. | <input type="checkbox"/> |
- iii) Respiratory stimulants are also known as
- | | | |
|-----------------|----------------|--------------------------|
| a) Thymoleptics | b) Analeptics | |
| c) Thymotropics | d) Nootropics. | <input type="checkbox"/> |
- iv) Which of the following is a anti-platelet drug ?
- | | | |
|------------------|----------------------|--------------------------|
| a) Aspirin | b) Heparin | |
| c) Streptokinase | d) Tranaexamic acid. | <input type="checkbox"/> |
- v) Megaloblastic anemia occurs due to deficiency of
- | | | |
|---------------|---------------|--------------------------|
| a) Vitamin A | b) Vitamin E | |
| c) Folic acid | d) Vitamin K. | <input type="checkbox"/> |
- vi) Acetazolamide is presently used only in treatment of
- | | | |
|-------------------------|------------------------|--------------------------|
| a) renal insufficiently | b) glaucoma | |
| c) C.H.F | d) cirrhosis of liver. | <input type="checkbox"/> |

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vii) Antidote of Acute Fe poisoning is

- | | |
|--------------------|--------------------|
| a) Nalaxone | b) FeSO_4 |
| c) Desferrioxamine | d) Parathion. |



viii) Which of the following drugs has selective 5-HT₃ antagonistic activity ?

- a) Ondansetron
 b) Clozapine
 c) Pizotifen
 d) Cyproheptadine.

ix) Which of the following is a HMG CoA reductase inhibitor ?

- | | |
|-------------------|--------------------|
| a) Lovastatin | b) Clofibrate |
| c) Cholestyramine | d) Nicotinic acid. |

x) One selective COX-II inhibitor is

- | | |
|-------------------|-------------------|
| a) Mefenamic acid | b) Diclofenac |
| c) Valdecoxib | d) None of these. |

xi) Angina results from

- a) increased myocardial O₂ demand
 b) decreased O₂ supply
 c) both (a) & (b)
 d) irregular rhythm.

xii) Tricyclic antidepressants decrease antihypertensive effect of clonidine due to

- a) Alfa-blocking effect
 b) Antimuscarinic effect
 c) 5-HT inhibition
 d) All of these
 e) None of these.



xiii) The NSAIDS produce their anti-inflammatory action by

- a) reducing synthesis of cicosanoid
- b) reducing synthesis of histamine
- c) increasing synthesis of prostaglandin
- d) none of these.



xiv) The acid secretion induced by histamine is blocked only by

- a) chlorpheniramine maleate
- b) diphenhydramine
- c) mepyramine
- d) nizatidine.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following questions.

3 × 5 = 15

2. What is Bioassay ? Discuss about 4-point Bioassay.
3. What is plasma Expanders ? Classify them. Discuss about Dextran.
4. What are Cardiac glycoside ? Write the MOA of Digitoxin.
5. Explain how Acetazolamide produce diuretic action. What are the adverse effects of High Ceiling Diuretics ?
6. Describe the different types of Angina.

2 + 3

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following questions.

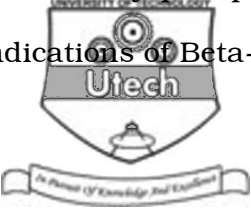
3 × 15 = 45

7. What are the various Histaminic receptors subtypes ? What are the pharmacological actions of Histamine ? What is pathophysiological role of Histamine ? What are the various therapeutic indications of Antihistaminic agents ?

3 + 4 + 5 + 3

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8. What is angina pectoris ? What are the various factors that may precipitate angina ?
Write the mechanism of action, ADRs and therapeutic indications of Beta-blockers. 2 + 4 + 9
9. a) Write principal, merit & demerit of Bioassay. 
- b) Discuss about Bioassay of insulin.
10. Define Expectorant with example. Explain the etiology of Bronchial Asthma in brief.
Enumerate various types of drugs utilized in Bronchial Asthma. 2 + 5 + 8
11. Define hypertension. Classify antihypertensive drugs. Write down the role of ACE inhibitor for controlling hypertension. $2 + 6\frac{1}{2} + 6\frac{1}{2}$
12. Write the classification of diuretics. Write the pharmacology of high ceiling diuretics by taking any one prototype drug in account.

END