

[KR 748]

Sub. Code : 4239

THIRD B.Pharm. DEGREE EXAMINATION.

Paper IV — PHARMACOLOGY — I

(Regulation 2004)

Time : Three hours

Maximum : 90 marks

Theory : Two hours and
forty minutes

Theory : 70 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

I. Long Essay :

(2 × 15 = 30)

Answer any TWO of the following :

1. (a) Describe briefly the adrenergic transmission and the drugs affecting it ; classify and explain the types of adrenergic receptors. (10)

(b) Explain the pharmacological actions of adrenaline. (5)

2. Define diuretics. Classify diuretics ; explain the various sites of action of diuretics in nephron with an example. (15)

3. Define receptor. Classify receptors and explain each type of receptor. (15)

4. (a) Classify antihypertensive drugs with examples and add a note on ACE inhibitors. (10)

(b) Explain the mechanism of action of Digoxin. (5)

II. Short notes : (8 × 5 = 40)

Answer any EIGHT questions.

1. Drugs used in the treatment of Gout.

2. Organophosphorus poisoning and its treatment.

3. Pre-Anaesthetic medication.

4. Mechanism of action of lithium carbonate.

5. Treatment of status epilepticus.

6. Drugs used in the treatment of asthma.

7. Bioassay of D-Tubocurarine.

8. Mechanism of action and adverse effect of phenytoin.

9. Clinical trials.

10. Factors modifying drug action.

February-2008

[KS 748]

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Q.P. Code : 564239

Time : Three hours

Maximum : 90 marks

Theory : Two hours and
forty minutes

Theory : 70 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

I. Long Essay :

(2 × 15 = 30)

Answer any TWO of the following.

1. (a) Write in detail about the pharmacological actions of aspirin. What are the precautions and contraindications for its use? (10)

(b) Write a note on selective cyclo oxygenase-2 inhibitors. (5)

2. (a) Classify anticholinesterases. What are their actions and mechanism of action? (10)

(b) Role of antiplatelet drugs in vascular insufficiency. (5)

3. Explain in detail about the various factors which modify drug action. (15)

4. (a) Classify Bronchodilators. What are the pharmacological actions, mechanism of action and adverse effects of theophylline? (10)

(b) Use of mast cell stabilizers in bronchial asthma. (5)

II. Short notes :

(8 × 5 = 40)

Answer any EIGHT questions.

1. Toxicity studies.

2. Therapeutic drug monitoring.

3. Dissociative anaesthesia.

4. Aldehyde dehydrogenase inhibitors.

5. Mucolytics.

6. Complications of spinal anaesthesia and its management.

7. Carbamazepine.

8. Peripheral decarboxylase inhibitors.

9. Inodilators.

10. Potassium channel openers.

August 2008

[KT 748]

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Q.P. Code : 564239

Time : Three hours

Maximum : 90 marks

I. Answer any TWO questions : (2 × 20 = 40)

1. (a) Classify Anti Hypertensive drugs with examples. (15)
(b) Write the mechanism of action of digitalis. (5)
2. (a) Write the pharmacological actions of morphine. (15)
(b) How will you treat morphine overdose? (5)

3. Discuss the various routes of administration of drugs with their advantages and limitations. (20)

II. Answer any EIGHT questions : (8 × 5 = 40)

- (1) Tachyphylaxis.
- (2) Clinical uses of β -Blockers.
- (3) Disulfiram.

- (4) Tricyclic Anti depressants.
- (5) Lamotrigine.
- (6) Spiranolactone.
- (7) Calcium channel blockers.
- (8) Beta-2 Adrenergic Agonists.
- (9) d-tubacurarine.
- (10) l-dopa + carbidopa as anti-parkinsonism drugs.

III. Answer any FIVE questions : (5 × 2 = 10)

- (1) Give two examples for HMG CoA reductare inhibitors.
- (2) Give two examples for antiplatelet agents.
- (3) Write two drugs for Attention Deficit Disorder.
- (4) Give two examples for selective cox-2 inhibitors.
- (5) Give two examples for sodium channel blockers used for dysarrythmias.
- (6) How does a local anaesthetic work?
- (7) Name two drugs used in status epilepticus.

February 2009

[KU 748]

Sub. Code: 4239

THIRD B.PHARM. DEGREE EXAMINATION

(Regulation 2004)

Candidates Admitted from 2004-05

Paper IV – PHARMACOLOGY – I

Q.P. Code : 564239

Time : Three hours

Maximum : 90 marks

I. Essay Questions : Answer any TWO question. (2 x 20 = 40)

1. What is biotransformation? Write the essay on various biotransformation reactions with suitable examples.
2. Write the essay on pharmacological actions of cholinergic drugs and brief the mechanism of action and therapeutic uses of reversible anti cholinesterase.
3. Classify the anti psychotic drugs? Write the pharmacodynamic and pharmacokinetic properties of phenothiazines.

II. Write Short Notes : Answer any EIGHT questions (8 x 5 = 40)

1. Write short note on bioavailability.
2. What is receptor? Classify the different types of receptors with examples.
3. Write note on therapeutic uses of adrenergic drugs?
4. Define bioassay. Write note on different types of bioassay.
5. Explain the various stages of anaesthesia?
6. Write the symptoms and line of treatment of methyl alcohol poisoning.
7. What is arrhythmias? Classify antiarrhythmic drugs?
8. Write the short note on opioid receptors.
9. Explain the mechanism of action and therapeutic uses of digoxine.
10. Brief various route of administration with suitable example?

III. Short Answers: Answer any FIVE questions (5 x 2 = 10)

1. Define teratogenicity with example.
2. Explain the volume of distribution.
3. What is prodrug? Give examples.
4. What is diuretics? Give any two therapeutic uses.
5. Define tachyphylaxis with suitable examples?
6. What is status epilepticus site the drug of choice?
7. Brief the therapeutic uses of angiotensin converting enzyme inhibitors?

August 2009

[KV 748]

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THIRD B.PHARM. DEGREE EXAMINATION

(Regulation 2004)

Candidates Admitted from 2004-05

Paper IV – PHARMACOLOGY – I

Q.P. Code : 564239

Time : Three hours

Maximum : 90 marks

I. Essay Questions : Answer any TWO question. (2 x 20 = 40)

1. a) Classify the Non-steroidal anti-inflammatory drugs.
b) Write the mechanism of action and pharmacological actions of aspirin.
c) Mention the therapeutic uses and adverse effects of aspirin.
2. a) Classify drugs used in the treatment of congestive cardiac failure.
b) Write the mechanism of action of Digoxin.
c) Mention its adverse effects.
3. a) Classify the sedative, hypnotic drugs.
b) Explain the mechanism of action and pharmacological actions of benzodiazepines.
c) Mention the therapeutic uses of diazepam.

II. Write Short Notes : Answer any EIGHT questions (8 x 5 = 40)

1. Treatment of organo phosphorus compound poisoning.
2. Dale's Vasomotor reversal phenomenon.
3. Mechanism of action of disulfiram.
4. Advantages of carbidopa with levo-dopa combination.
5. Selective serotonin reuptake inhibitors.
6. Naloxone.
7. Explain the action of nitrates in angina pectoris.
8. Pre-anesthetic medication.
9. What are the principles of bioassay? Describe the bioassay of vasopressin.
10. Angiotensin receptor antagonist.

III. Short Answers: Answer any FIVE questions (5 x 2 = 10)

1. Disadvantages of oral route of administration.
2. Name two drugs which does not cross blood brain barrier.
3. Therapeutic index of drugs.
4. Name two drugs used in glaucoma.
5. Therapeutic uses of adrenaline.
6. Name two non sedative antihistamines.
7. Name two drugs that suppress dry cough.

February 2010

[KW 748]

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THIRD B.PHARM. DEGREE EXAMINATION

(Regulation 2004)

Candidates Admitted from 2004-05

Paper IV – PHARMACOLOGY – I

Q.P. Code : 564239

Time : Three hours

Maximum : 90 marks

I. Essay Questions : Answer any TWO question. (2 x 20 = 40)

1. a) Classify anticholinergic drugs with examples for each group. (5)
b) Describe pharmacological actions, therapeutic uses and adverse effects of atropine. (15)
2. Define the term drug biotransformation. Discuss the different types of biotransformation with suitable examples. (20)
3. a) Classify antipsychotic drugs. (5)
b) Write actions, therapeutic uses and adverse effects of chlorpromazine. (15)

II. Write Short Notes : Answer any EIGHT questions (8 x 5 = 40)

1. Advantages of dopa decarboxylase inhibitors.
2. Succinylcholine.
3. Prodrugs.
4. Pralidoxime is used in organophosphorus poisoning.
5. Neostigmine is preferred to physostigmine in myasthenia gravis.
6. Selective β_2 agonists.
7. Mast cell stabilizers.
8. Routes of administration of local anaesthetics.
9. Dissociative anesthetics.
10. MAO inhibitors.

III. Short Answers: Answer any FIVE questions (5 x 2 = 10)

1. Name two potassium sparing diuretics.
2. Two uses of minoxidil.
3. Name two drugs used in angina pectoris.
4. Name two therapeutic uses of digitoxin.
5. Name two anticholinergics used in parkinsonism.
6. Advantage for combining adrenaline along with local anesthetics.
7. Propranolol is contra indicated in Bronchial asthma.

September 2010

[KX 748]

Sub. Code: 4239

THIRD B.PHARM. DEGREE EXAMINATION
(Regulation 2004)Candidates Admitted from 2004-05
Paper IV – PHARMACOLOGY – I
Q.P. Code : 564239

Time : Three hours

Maximum : 90 marks

I. Essay Questions : Answer any TWO questions. (2 X 20 = 40)

1. Classify antihypertensive drugs with examples, mechanism of action of Angiotensin converting enzyme Inhibitors and Angiotensin Receptor Blockers and its therapeutic uses.
2. a) Explain different types of Epilepsy and write the classification of Antiepileptic Drugs.
b) Write briefly about mechanism of actions of Phenytoin.
c) Mention the therapeutic uses and adverse effects of Phenytoin.
3. a) Define Diuretics, Classify diuretics.
b) Explain the various sites of action of Diuretics in Nephron with an example.
c) Mention the Therapeutic uses of and adverse effects of loop diuretics.

II. Write Short Notes : Answer any EIGHT questions. (8X 5 = 40)

1. What is metabolism? Write short notes on various reactions involved in metabolism.
2. Write notes on Sympathomimetic drug.
3. Explain the various stages of anaesthesia.
4. Write notes on therapeutic uses of adrenergic drugs.
5. Arrhythmia – Definition and classify antiarrhythmic drugs.
6. Classify antiparkinson drugs and mechanism of action of Carbidopa.
7. Classify the Antihyperlipidemic drugs with suitable examples.
8. Define Asthma and write classification of Antiasthmatic drugs.
9. Write notes on Drug – Drug interaction.
10. Write notes on various route of Administration.

III. Short Answers: Answer any FIVE questions. (5X2 = 10)

1. Narcotic Analgesics and its Antagonists.
2. Classify Antidepressants Drugs.
3. Name two drugs used in AntiInflammation.
4. How does a local Anaesthetic work?
5. Give examples of centrally acting muscles relaxants.
6. Therapeutic uses of Digoxin.
7. Name two Expectorant.

FEBRUARY 2011

[KY 748]

Sub. Code : 4239

THIRD B.PHARM. DEGREE EXAMINATION.

(Regulation 2004) Candidates admitted from 2004-05 onwards)

Paper IV — PHARMACOLOGY - I

Q. P. Code : 564239

Time : Three hours

Maximum : 90 marks

I. Essay Questions :

Answer any TWO questions.

(2 x 20 = 40)

1. Explain various routes of administration with their advantages and disadvantages. Add a note on novel drug delivery system.
2. (a) Classify anticholinergic drugs with examples for each group. (5)
(b) Describe pharmacological actions therapeutic uses and adverse effects of atropine. (15)
3. (a) Classify antiarrhythmic drugs write the mechanism of action of class I drugs. (10)
(b) Classify antihyperlipidemic drugs. Write the mechanism of HMG - COA reductase inhibitors. (10)

II. Write Short Notes :

Answer any EIGHT questions.

(8 x 5 = 40)

1. Pharmacogenetics.
2. Calcium channel blockers.
3. Dissociative anaesthesia.
4. Explain the mechanism of action of local anaesthetics.
5. Clinical used of β -blockers.
6. Classify antihypertensives.
7. Classify benzodiazepines. Write the mechanism of action and uses.
8. Write the mechanism of action of loop diuretics add a note on their adverse effects and uses.
9. Classify antidepressants and write mechanism of fluoxetine.
10. Write the symptoms and treatment for acute organo phosphorus poisoning.

[PTO]

III. Short Answers:

Answer any FIVE questions.

(5 x 2 = 10)

1. Bio-assay.
2. Write the mechanism of action of digoxin.
3. Name any two cough suppresents.
4. Name any two Cox-2 inhibitors.
5. Name any two antianxiety drugs.
6. Name any two antianginal drugs
7. Write any two uses of adrenergic drugs.
