

April 2001

[KD 544]

Sub. Code : 4065

SECOND M.B.B.S. DEGREE EXAMINATION.

(Non-Semester)

(Revised Regulations)

Paper V — PHARMACOLOGY — I

Time : Three hours Maximum : 100 marks
Two and a half hours Theory : 70 marks
for Theory MCQ : 30 marks
MCQ : 30 minutes

Answer MCQ in the answer sheet provided.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

1. (a) Classify antiepileptic drugs. (4)
(b) Describe the pharmacological action, mechanism of antiepileptic action, Adverse effects and uses of any ONE drug used for Grandmal epilepsy. (2 + 2 + 2 + 2 = 8)
(c) How do you treat a case of status epilepticus? (3)
2. Write briefly on :
 - (a) Bioavailability
 - (b) Lignocaine
 - (c) Labetalol
 - (d) Organophosphorus poisoning. (4 × 5 = 20)

3. (a) Classify antianginal drugs. (3)
(b) Describe the cardiac actions, mechanism of action Adverse effects and uses of Digoxin. (2 + 2 + 2 + 2 = 8)
(c) How do you manage a case of Congestive Heart Failure? (4)
4. Write short notes on :
 - (a) Low m.wt Heparin
 - (b) Amlodipine
 - (c) Disodium cromoglycate
 - (d) Frusemide. (4 × 5 = 20)

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(Non-Semester)

(Revised Regulations)

Paper V — PHARMACOLOGY — I

Time : Three hours Maximum : 100 marks

Two and a half hours for Theory Theory : 70 marks

MCQ : 30 minutes MCQ : 30 marks

Answer MCQ in the answer sheet provided.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

SECTION A

1. (a) Classify non-steroidal anti inflammatory drugs. (2)
- (b) Discuss the mechanism and pharmacological actions of aspirin. (7)
- (c) What are the adverse effects and drug-interactions with aspirin. (4)
- (d) Write the therapeutic uses of aspirin. (2)

2. Write briefly on : (4 × 5 = 20)
 - (a) Sodium valproate
 - (b) Drug Antagonism and types of antagonists.
 - (c) Therapeutic uses and routes of administration of Adrenaline.
 - (d) Neostigmine.

SECTION B

3. (a) Classify antiarrhythmic drugs. (2)
- (b) Discuss briefly the mechanisms of production of arrhythmias. (2)
- (c) Describe the pharmacological actions and adverse effects of Quinidine. (7)
- (d) Write the therapeutic uses and drug interactions of quinidine. (4)
4. Write briefly on : (4 × 5 = 20)
 - (a) Furosamide.
 - (b) A.C.E. inhibitors.
 - (c) Astemizol.
 - (d) Methyl xanthines in bronchial asthma.

March 2002

[KG 544]

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(Non-Semester)

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Paper V — PHARMACOLOGY — I

Time : Three hours

Maximum : 100 marks

Theory : Two and a half hours

Theory : 70 marks

and MCQ : Half an hour

MCQ : 30 marks

Answer MCQ in the answer sheet provided.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

Section A and B to be answered

in the same answer book.

SECTION A

1. (a) Classify anti-epileptic drugs. (2)
- (b) Describe the pharmacodynamic and pharmacokinetic properties of phenytoin. (7)
- (c) What are the adverse effects and important drug interactions with phenytoin? (4)
- (d) Write the therapeutic uses of phenytoin. (2)

2. Write briefly on : (4 × 5 = 20)
 - (a) Drug tolerance
 - (b) Drug therapy of Glaucoma
 - (c) Therapeutic uses of aspirin with dosage
 - (d) Succenyl choline.

SECTION B

3. (a) What are cardiac glycosides and their sources? (2)
 - (b) Compare the pharmacokinetic properties of all the preparations. (2)
 - (c) Discuss the mechanism and the pharmacological actions of digoxin. (7)
 - (d) What are the recent advances in the treatment of congestive heart failure? (4)
4. Write briefly on : (4 × 5 = 20)
 - (a) HMG Co-A reductase inhibitors
 - (b) Potassium sparing diuretics
 - (c) Cromolyn sodium
 - (d) Therapeutic uses of beta-adrenergic blockers.

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SECOND M.B.B.S. DEGREE EXAMINATION.

(Non-Semester)

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Paper V — PHARMACOLOGY — I

Time : Three hours Maximum : 100 marks
Theory : Two hours and Theory : 80 marks
 forty minutes
M.C.Q : Twenty minutes M.C.Q : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

- I. Write Essay : (2 × 15 = 30)
- (1) (a) Classify general anaesthetic agents.
- (b) Discuss in detail the various stages of general anaesthesia.
- (c) What are the merits of halothane as a general anaesthetic.
- (d) What are the untoward effects of halothane? (4 + 7 + 2 + 2)

- (2) (a) Classify skeletal muscle relaxants.
- (b) Discuss the mechanism of action of each group.
- (c) What are the uses of skeletal muscle relaxants?
- (d) What is succinyl choline apnoea and how do you treat this condition? (2 + 7 + 2 + 4)

- II. Write briefly on : (10 × 5 = 50)
- (a) Alfa adrenergic blocking agents.
- (b) Protein binding of drugs.
- (c) Use of Lithium Carbonate in psychiatry.
- (d) Treatment of Status Asthmaticus.
- (e) Hematinics.
- (f) Uses and side effects of thiazide diuretics.
- (g) H₂ blocking agents.
- (h) Role of A.C.E. inhibitors in hypertension.
- (i) OXIMES.
- (j) Pharmacotherapy of myasthenia Gravis.

August-2004

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SECOND M.B.B.S. DEGREE EXAMINATION.

(Non-Semester)

(Revised Regulations)

Paper V — PHARMACOLOGY — I

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
 forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Write Essay : (2 × 15 = 30)

(1) (a) Classify antiepileptic drugs.

(b) Discuss the mechanism of action of various antiepileptic drugs.

(c) What are the various uses and adverse effects of phenytoin sodium?

(d) How do you treat status epilepticus?
(4 + 4 + 4 + 3)

(2) (a) Classify Beta adrenergic blockers.

(b) Discuss the uses and contra indications of beta blockers.

(c) Discuss the beta blockers employed in glaucoma with their mechanism of action.

(d) What are the merits of cardioselective beta blockers?
(3 + 5 + 3 + 3)

II. Write briefly on : (10 x 5 = 50)

(a) Bioavailability.

(b) Osmotic diuresis.

(c) Ketamine.

(d) Low molecular weight heparins.

(e) Inhalational agents in bronchial asthma.

(f) Non sedative H1 blockers.

(g) Clonidine.

(h) Tamoxifen.

(i) Parenteral iron therapy.

(j) Treatment of organophosphorus poisoning.

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(Non-Semester)

(Revised Regulations)

Paper V — PHARMACOLOGY — I

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Write Essay : (2 × 15 = 30)

(1) (a) Classify sedative-hypnotic drugs

(b) Describe the sites and mechanism of action of Benzodiazepines

(c) Write the therapeutic uses of Benzodiazepines

(d) Mention the adverse effects and treatment of Benzodiazepine. overdose. (4 + 6 + 3 + 2)

(2) (a) Classify sympathomimetics

(b) Discuss the cardiovascular action of adrenaline

(c) Mention the therapeutic uses of adrenaline

(d) What are the adverse effects of adrenaline. (4 + 7 + 2 + 2)

II. Write briefly on : (10 × 5 = 50)

(a) Mechanism of action of Local Anaesthetic

(b) Pharmacotherapy of glaucoma

(c) Oral anticoagulants

(d) Drug antagonism

(e) Calcium channel blockers

(f) 5-Hydroxytryptamine antagonists

(g) Potassium sparing diuretics

(h) Treatment of hypertensive emergency

(i) Expectorants

(j) Pure opioid antagonists.

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(Non-Semester)

(Revised Regulations)

Paper V — PHARMACOLOGY — I

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Write Essay: (2 × 15 = 30)

(1) (a) Classify adrenergic drugs.

(b) Discuss in detail the mechanism of action and cardiovascular actions of adrenaline.

(c) What are the side effects of adrenaline?

(d) What are the therapeutic uses of adrenaline? (4 + 7 + 2 + 2)

(2) (a) Classify anti hypertensive drugs.

(b) Discuss the mechanism of action and cardio-vascular actions of Enalapril.

(c) What are the uses of calcium channel blockers?

(d) How do you treat hypertensive emergencies? (2 + 7 + 2 + 4)

II. Write briefly on : (10 × 5 = 50)

(a) Plasma half life and its significance

(b) Selective serotonin re uptake inhibitors

(c) Zileuton

(d) Low molecular weight heparins

(e) Treatment of status asthmaticus

(f) Therapeutic uses and side effects of Atropine

(g) Role of organic nitrates in myocardial infarction

(h) Pre anesthetic medication

(i) Non sedative anti histamines

(j) Lovastatin.

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SECOND M.B.B.S. DEGREE EXAMINATION.

Revised (Non-Semester) Regulations

Paper V — PHARMACOLOGY – I

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Write essay question.

1. (a) Describe the pathophysiology of congestive cardiac failure.

(b) How will you manage a case of Acute Heart Failure?

(c) What is the treatment of Digitalis Toxicity?
(20)

2. (a) Classify skeletal muscle relaxants.

(b) Describe in detail about the mechanism of action and therapeutic uses of Succinyl Choline.

(c) Write about the adverse effects of Succinyl Choline and how do you manage Succinyl Choline apnea.
(5 + 5 + 5 = 15)

3. (a) Classify diuretics.

(b) Describe in detail the mechanism of action of loop diuretics and their adverse effects.

(c) What are the therapeutic effects of Spironolactone?
(5 + 5 + 5 = 15)

II. Write short notes on : (6 × 5 = 30)

(a) Enoxaprine.

(b) Phase I reactions in biotransformation.

(c) Therapeutic uses of Atropine.

(d) K⁺ channel openers.

(e) Pantoprazole.

(f) Iron preparations.

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SECOND M.B.B.S. DEGREE EXAMINATION.

Revised (Non-Semester) Regulations

Paper V — PHARMACOLOGY — I

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Write Essay Questions :

- (1) (a) Classify Beta blockers.
- (b) Discuss their pharmacological actions.
- (c) Discuss their Therapeutic uses.
- (d) Mention the advantages of cardio

selective Beta blockers.

(5 + 6 + 5 + 4 = 20)

(2) (a) Classify sedative-hypnotics.

(b) Discuss the mechanism of action and therapeutic uses of Benzodiazepines.

(c) How do you manage Barbiturate poisoning? (5 + 6 + 4 = 15)

(3) (a) Classify opioid analgesics.

(b) Discuss the mechanism of action therapeutic uses and adverse effects of Morphine.

(c) Write briefly on opioid antagonists. (5 + 6 + 4 = 15)

II. Write short notes on : (6 × 5 = 30)

- (a) Nasal decongestants.
- (b) Losartan.
- (c) Treatment of status epilepticus.
- (d) First pass metabolism.
- (e) Fibrinolytics.
- (f) 5 HT₂ antagonists.

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SECOND M.B.B.S. DEGREE EXAMINATION.

Revised (Non-Semester) Regulations

Paper V — PHARMACOLOGY — I

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
 forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

I. Write Essay on :

1. (a) Classify antihypertensive drugs. (6)

(b) Discuss on the mechanism of action, the therapeutic uses and the adverse effects of "Angiotensin Inhibitors". (4 + 4 + 2)

(c) Write on the drug interactions and contra indications for "Angiotensin Inhibitors". (2 + 2)

2. (a) Classify "Anticholinergic Drugs". (5)

(b) Discuss the pharmacological actions, adverse effects and contra indications of atropine. (4 + 2 + 2)

(c) Write briefly on the management of atropine poisoning. (2)

3. (a) Classify "Antidepressant drugs". (5)

(b) Discuss the mechanism of action, therapeutic uses and adverse effects of 'Fluoxetine'. (2 + 2 + 2)

(c) Enumerate the differences between imipramine and fluoxetine. (4)

II. Write short notes on : (6 × 5 = 30)

(a) Antiplatelet drugs

(b) Bronchodilator drugs

(c) Positive inotropic agents used in cardiac failure

(d) Ondansetron

(e) Therapeutic index

(f) Drugs used in glaucoma.

FEBRUARY 2008

[KS 544]

Sub. Code : 4065

SECOND M.B.B.S. DEGREE EXAMINATION.

Revised (Non-Semester) Regulations

Paper V — PHARMACOLOGY — I

Q.P.Code : 524065

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Draw suitable diagrams wherever necessary.

Answer ALL questions.

- I. Write essay on : (2 × 15 = 30)
1. (a) Enumerate analgesics. (5)
(b) Write the mechanism of action and clinical uses of aspirin. (2 + 4)
(c) List the adverse effects and contra indications to aspirin. (4)

2. (a) Enumerate drugs used in epilepsy. (5)
(b) Discuss the mechanism of action, therapeutic uses and unwanted effects of phenytoin. (3 + 3 + 4)
- II. Write short notes on : (10 × 5 = 50)
 1. Pharmacogenetics.
 2. Drug treatment of migraine.
 3. Selective serotonin reuptake inhibitors.
 4. Compare and contrast Heparin and Warfarin.
 5. Preanaesthetic medication
 6. Osmotic diuretics
 7. Atorvastatin.
 8. Ramipril.
 9. New drug delivery systems.
 10. Morphine.