[KT 544] **AUGUST 2008** **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**

Answer **ALL** questions.
Draw Suitable diagrams wherever necessary

I. Essay Questions : **(2 x 15 = 30)**

1. (i) Classify antihypertensive drugs.
   (ii) Write the mechanism of action and pharmacological action of captopril.
   (iii) Therapeutic uses and adverse effects of captopril.
2. (i) Classify NSAID's.
   (ii) Write the mechanism of action and pharmacological action of salicylates.
   (iii) Therapeutic uses and adverse effects of salicylates.

II. Write Short notes on : **(10 x 5 = 50)**

1. Treatment of organophosphorus poisoning.
2. Biotransformation.
3. Indications and contra – indications of B-blockers.
4. Write the differences between competitive & Non-competitive Neuromuscular blockers. Write their therapeutic uses and adverse effects.
5. Intravenous general Anaesthetics.
6. Selective serotonin re-uptake inhibitors.
7. Pharmacotherapy of parkinsonism.
8. Therapeutic uses of prostoglandins.
9. High Ceiling Diuretics.
10. Pentazocine.

III. Short Answer Questions : **(10 x 2 = 20)**

1. Name two selective co x -2 inhibitors.
2. Rationale of giving adrenaline along with local anaestnetics.
3. Write two therapeutic uses of ONDANSETRAN.
4. Mention two advantages and disadvantages of sublingual route of drug administration.
5. Drug used in cardiogenic shock.
6. Centrally acting cough suppressants and their use.
7. Therapeutic uses of AMIODARONE.
8. Name two second generation Antihistamines and their therapeutic uses.
9. Therapeutic uses of organic nitrates.
10. Adverse effects of SPIRONOLACTONE.

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[KU 544] **FEBRUARY 2009** **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**

Answer **ALL** questions.
Draw Suitable diagrams wherever necessary

I. Essay Questions : **(2 x 15 = 30)**

1. a) Classify Diuretics.
   b) Write the mechanism of action and pharmacological actions of furosimide.
   c) Therapeutic uses and adverse effects of Furosimide.
2. a) Classify sympathomimetic drugs.
   b) Write the mechanism of action and pharmacological actions of adrenaline.
   c) Therapeutic uses and adverse effects of adrenaline.

II. Write Short notes on : **(10 x 5 = 50)**

1. Carbamazepine.
2. Organic nitrates.
3. calcium channel blockers.
4. Succinyl choline.
5. Drug tolerance.
6. Uses and adverse effects of digoxin.
7. Atypical antipsychotics.
8. Define pharmacogenetics with two examples.
9. Tricyclic anti depressants.
10. Therapeutic uses of Lignocaine.

III. Short Answer Questions : **(10 x 2 = 20)**

1. Name two drugs used in trigeminal neuralgia.
2. Contra indications of adrenaline along with local anaesthetics.
3. Adverse effects of phenothiazines.
4. Therapeutic uses of alpha blockers.
5. Drugs used in status epilepticus.
6. Mention two drugs used in glaucoma with the rationale.
7. Mention two groups of drugs used in prophylaxis of migraine.
8. Treatment of methyl alcohol poisoning.
9. Mention two adverse effects of beta blockers.
10. Drugs used in anaphylactic shock.

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[KV 544] **AUGUST 2009** **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**

Answer **ALL** questions.
Draw Suitable diagrams wherever necessary

I. Essay Questions : **(2 x 15 = 30)**

1. a) Classify Anti muscarinic drugs.
   b) Mention pharmacological actions of atropine and its uses.
   c) Enumerate atropine derivatives and its uses.
2. a) Classify H1 receptor blockers.
   b) Pharmacology of mastcell stabilizers and its uses.
   c) Enumerate H2 receptor blockers and its uses.

II. Write Short notes on : **(10 x 5 = 50)**

1. Bio availability.
2. Extra cardiac uses of β-blockers.
3. Enumerate calcium channel blockers write briefly on diltiazem.
4. Drug therapy of parkinsonism.
5. Neurolept – Analgesia.
6. Benzo diazepines.
7. Rationale of ethanol in methanol poisoning.
8. Quinidine.
9. Enumerate loop diuretics mention adverse effects.
10. Dopamine in cardiogenic shock.

III. Short Answer Questions : **(10 x 2 = 20)**

1. Name the two drugs eliminated through lungs.
2. Pre anaesthetic rationale of atropine.
3. Mention two uses of β-blockers.
4. Compare and contrast methylergometrine and oxytocin.
5. Dantrolene.
6. Mention two cardiac glycosides and two indications.
7. Mention two therapeutic uses of lignocaine.
8. Mention two drugs used as inhalation steroids two adverse effects.
9. Rationale of timolol in glaucoma.
10. Mention two selective cox-2 inhibitors and two adverse effects.

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[KW 544] **FEBRUARY 2010** **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**

Answer **ALL** questions.
Draw Suitable diagrams wherever necessary

I. Essay Questions : **(2 x 15 = 30)**

1. a) Classify Anticonvulsant drugs.
   b) Mechanism of action and pharmacological action of Benzodiazipines.
   c) Therapeutic uses and adverse effects of Benzodiazipines.
2. a) Define Biotransformation reaction.
   b) Explain phase I and phase II reaction with suitable examples.
   c) Importance of Enzyme induction and enzyme inhibition.

II. Write Short notes on : **(10 x 5 = 50)**

1. Local routes.
2. Treatment of Glaucoma.
3. Balance anaesthesia.
4. Selective serotonin re-uptake inhibitors.
5. Osmotic diuretics.
6. Caverdilol.
7. Mechanism of action and uses of antiplatelet drugs.
8. Atarvostatin.
9. Iron preparations and uses.
10. Pre-anesthetic medication.

III. Short Answer Questions : **(10 x 2 = 20)**

1. Pro drug.
2. Rationale for use of dopamine in cardiogenic shock.
3. Therapeutic range.
4. Controlled release drugs.
5. Postural hypotension.
6. Zero order kinetics.
7. Mast cells modulators.
8. Mucolytic drugs.
9. Dissociative anesthesia.
10. COX – 2 Inhibitors.

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[KX 544] **AUGUST 2010** **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**

Answer **ALL** questions.
Draw Suitable diagrams wherever necessary

I. Essay Questions : **(2 x 15 = 30)**

1. i) Classify antiepileptic drugs with examples for each group.
   ii) Describe mechanism of action, adverse effects and therapeutic indications of Diphenyl hydantoin.
   iii) Role of Topiramate in epileptic patients.
2. i) Define drug and dose.
   ii) Factors modifying drug action.

II. Write Short notes on : **(10 x 5 = 50)**

1. Classification and therapeutic uses of α (Alpha) – blockers.
2. Pharmacotherapy of migraine.
3. Thiazide diuretics – Mechanism of action, adverse effects and uses.
4. Drug therapy of chronic gout.
5. Heparin – mechanism of action, adverse effects and indications.
6. Therapeutic uses of prostaglandins.
7. Treatment of organophosphorus poisoning.
8. Drugs to be avoided in elderly and their safer alternatives.
9. Treatment of Myocardial infarction.
10. Enumerate statins. Write about mechanism of action and indications of statins.

III. Short Answer Questions : **(10 x 2 = 20)**

1. Mention four drugs bound to plasma albumin.
2. What is Rupatadine? Mention one indication for it.
3. Mention two Leukotriene antagonists used in bronchial asthma.
4. What is fomepizole? Mention one indication for it.
5. Mention any four preanaesthetic medicants.
6. Mention four angiotensin receptor blockers.
7. Drugs used in anaphylactic shock.
8. Mention two non benzodiazepine hypnotics.
9. Mention two selective dopamine agonists used in Parkinson’s disease.
10. Give two examples for physiological functional antagonism.

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[KY 544] **FEBRUARY 2011** **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**

Answer **ALL** questions.
Draw Suitable diagrams wherever necessary

I. Essay Questions : **(2 x 15 = 30)**

1. (i) Classify adrenergic drugs.
   (ii) Discuss the therapeutic uses of adrenergic drugs.
   (iii) Outline the adverse effects and contraindications of Adrenaline.
2. (i) Classify antihypertensive drugs.
   (ii) Discuss the mechanism of action & therapeutic uses of Angiotensin receptor blockers.
   (iii) Outline briefly about hypertensive emergencies and urgencies.

II. Write Short notes on : **(10 x 5 = 50)**

1. Newer drug delivery system.
2. Therapeutic uses of atropine and its substitutes.
3. Therapeutic uses of H1 antihistaminics.
4. Centrally acting skeletal muscle relaxants.
5. Complications of spinal anaesthesia.
6. Phenytoin sodium.
7. Amiodarone.
8. Flurosemide.
9. Heparin.
10. Mast cell stabilizers.

III. Short Answer Questions : **(10 x 2 = 20)**

1. Mention four drugs delivered by transdermal patches.
2. Define Plasma half life. Mention two drugs with long Plasma half life.
3. Mention four methods of prolongation of drug action.
4. What is competitive antagonism?
5. Define Teratogenicity. Mention four Teratogenic drugs.
6. Mention four drugs used in the treatment of Glaucoma.
7. Mention four therapeutic uses of Prostaglandins.
8. Mention four contraindications for Aspirin.
9. Give four examples for DMARDs.
10. Mention four examples for HMG – CoA reductase inhibitors.

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[KZ 544] **AUGUST 2011** **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**

Answer **ALL** questions.
Draw Suitable diagrams wherever necessary

I. Essay Questions : **(2 x 15 = 30)**

1. (i) Enumerate the various sedative and hypnotic drugs.
   (ii) Discuss the mechanism of action, uses and adverse effects of benzodiazepines.
   (iii) Briefly discuss the management of acute barbiturate poisoning.
2. (i) Classify anticholinersterases
   (ii) Discuss the mechanism of action and indications of reversible anti-cholisterases
   (iii) Outline the management of acute organophosphorous poisoning.

II. Write Short notes on : **(10 x 5 = 50)**

1. Mydriatics.
2. Drugs used in prophylaxis of migraine.
3. Receptor antagonism of drugs.
4. Sublingual route of administration.
5. Blood-Brain barrier.
6. Therapeutic uses of loop diuretics.
7. Parenteral iron therapy.
8. Epsilon amino-caproic acid.
9. Therapeutic uses of prostaglandin analogues.
10. Uricosuric agents.

III. Short Answer Questions : **(10 x 2 = 20)**

1. Mechanism of action of Disulfiram.
2. What is potentiation of drug action? Mention two examples?
3. What is Eutetic mixture? Mention its indications.
4. Mention two uses, two advantages and two disadvantages of thiopentone sodium.
5. What is first order kinetics?
6. What is fixed dose combination? Give two examples
7. Mention two selective Cox-2 inhibitors. What are the advantages?
8. What are antitussives? Give two examples.
9. Mention 2 thiazide diuretics. Mention two uses of thiazides.
10. What is the mechanism of action and uses of Montelukast?

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[LA 544] **FEBRUARY 2012** **Sub. Code : 4065**

SECOND M.B.B.S. DEGREE EXAMINATION
Revised (Non-Semester) Regulations
Paper I – PHARMACOLOGY – I
Q. P. Code : 524065

Time : 180 Minutes **Maximum: 40 Marks**

Answer **ALL** questions in the same order.
Draw Suitable diagrams wherever necessary

I. Elaborate on :

1. a) Classify β blockers.
   b) Discuss the pharmacological actions, kinetics, adverse effects and Usesof propronalol.
   c) Mention the role of beta blockers in thyrotoxicosis. **(10 x 1 = 10)**
2. a) Classify antiepileptic drugs.
   b) Discuss in detail about the mechanism of action, kinetics, adverse effects and uses of phenytoin.
   c) How will you manage a known epileptic with three months of enorrhoea.**(5 x 1 = 5)**

II. Write notes on : **(10 x 1.5 = 15)**

1. Essential drugs
2. Microsomal enzyme inducers
3. Antagonism
4. Pre anesthetic medication
5. Therapeutic uses of morphine
6. Treatment of Alzheimers disease
7. Glyceryl trinitrate
8. Inhaled steroids
9. Lignocaine
10. Osmatic diuretics.

III. Short Answers on : **(10 x 1 = 10)**

1. Define pharmacogenomics
2. Orphan drugs
3. Mechanism of action of digoxin
4. Loading dose
5. First dose effect
6. Name two sialogoges
7. Drugs used in acute gout
8. Mention four Atypical anti psychotics
9. Mention two uses of Dinoprostone
10. Name two central sympatholytic agents write two uses.

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[LB 544] **AUGUST 2012** **Sub. Code : 4065**

SECOND M.B.B.S. DEGREE EXAMINATION

Paper I – PHARMACOLOGY – I

Q. P. Code : 524065

Time : 180 Minutes **Maximum: 40 Marks**

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Elaborate on:	**Pages (Max.)**	**Time (Max.)**	**Marks (Max.)**
1. a. Classify the drugs used as peripherally acting skeletal muscle relaxants. b. Discuss in detail the pharmacological actions and toxicity produced by d-Tubocurarine. c. Add a note on the rationale of using Dantrolene sodium in the management of Malignant Hyperthermia.	16	30	10
2. Discuss the role of sympathomimetics in the management of Bronchial asthma.	8	20	5
II. Write notes on:			
1. Drug responses in elderly.	3	8	1.5
2. Uroselective α adrenergic blockers.	3	8	1.5
3. Selective 5-HT 1B/1D agonist.	3	8	1.5
4. Mechanism of action and uses of Nimesulide.	3	8	1.5
5. Propofol as an inducing agents.	3	8	1.5
6. Role of Ethyl alcohol in Methyl alcohol poisoning.	3	8	1.5
7. Management of Status Epilepticus.	3	8	1.5
8. Malignant Neuroleptic Syndrome.	3	8	1.5
9. Contraindications for Digitalis use.	3	8	1.5
10. Mechanism of action and uses of Spironolactone.	3	8	1.5
III. Short answers on:			
1. Citrovorum factor rescue.	2	5	1
2. Heparin Antagonist.	2	5	1
3. 4 extravascular uses of Clonidine.	2	5	1
4. Physiological Antagonism.	2	5	1
5. Dopaminergic agonist in Parkinsonism.	2	5	1
6. Uses of Diazepam.	2	5	1
7. Contraindications for β blockers.	2	5	1
8. Mechanism of action and uses of Nitrendipine.	2	5	1
9. Consequences of Microsomal inhibition.	2	5	1
10. Bupivacaine.	2	5	1

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[LC 544] **FEBRUARY 2013** **Sub. Code : 4065**

SECOND M.B.B.S. DEGREE EXAMINATION

Paper I – PHARMACOLOGY – I

Q. P. Code : 524065

Time : 180 Minutes **Maximum: 100 Marks**

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Elaborate on: **(2 x 15 = 30)**

1. a. Classify adrenergic drugs based on therapeutic uses.
   b. Discuss about the pharmacological action adverse effects and uses of adrenaline.
2. a. Classify antiparkinsonian drugs.
   b. Write about on Dopaminergic agonists.

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

1. Fixed dose ratio combinations.
2. Newer drug delivery system.
3. Pentazocine.
4. Potassium channel Openers.
5. Therapeutic use of atropine.
6. Adverse effect of high ceiling diuretics.
7. Mention the various Iron Preparation.
8. Seletive serotonin Reuptake inhibitors.
9. Venodilators.
10. Metachlopromide.

III. Short Answers on: **(10 x 2 = 20)**

1. What is cumulation.
2. Drug therapy for vertigo.
3. Omalizumab.
4. Therapeutic Index.
5. Modafinil.
6. Amakacin.
7. Uses Erthropoietin.
8. Name four Angiotensin Receptor blockers.
9. Esmolol.
10. Mention four adverse effects of Phenytoin.

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[LD 544] **AUGUST 2013** **Sub. Code : 4065**

SECOND M.B.B.S. DEGREE EXAMINATION

Paper I – PHARMACOLOGY – I

Q. P. Code : 524065

Time : 180 Minutes **Maximum: 40 Marks**

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Elaborate on: **(2 x 7.5 = 15)**

1. a) Classify the drugs used for the treatment of Parkinsonism.
   b) Discuss the Pharmacological actions, Adverse effects & Interactions of Levodopa.
2. Discuss the drug therapy of Anticholinesterase poisoning.

II. Write Notes on: **(10 x 1.5 = 15)**

1. Specialized active transport mechanism across biological membrane.
2. Beneficial effects of β blockers in Myocardial infarction.
3. Topiramate.
4. Effects of Aspirin on acid base & electrolyte balance.
5. Mucokinetic agents.
6. Local anaesthetics in the presence of inflammation.
7. Aldehyde dehydrogenase inhibitor.
8. Agents inhibiting Renin-Angiotensin system.
9. Pharmacovigilance.
10. Glycoprotein IIb/IIIa receptor antagonist.

III. Short Answers on: **(10 x 1 = 10)**

1. 2 merits & 2 demerits of rectal administration of drugs.
2. Sibutramine.
3. Advantages of topical β blockers over miotics in Glaucoma.
4. Uses of Cyproheptadine.
5. Name 2 Leukotriene receptor antagonists & their indications.
6. Thiazides as Antidiuretics.
7. Azelastine.
8. Adenosine in the management of Paroxysmal Supra Ventricular Tachycardia.
9. What are LMW Heparins & enumerate their advantages over regular Heparin.
10. Serotonin and Noradrenaline Reuptake Inhibitors (SNRI).

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[LE 544] **FEBRUARY 2014** **Sub. Code: 4065**

SECOND YEAR MBBS DEGREE EXAMINATION

Paper I – PHARMACOLOGY – I

Q. P. Code: 524065

Time : 180 Minutes **Maximum: 40 Marks**

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Elaborate on: **(2 x 7.5 = 15)**

1. a) Classify Diuretics
   b) Discuss the mechanism of action, therapeutic uses and complications of Frusemide.
2. a) Classify antianginal drugs.
   b) Discuss the mechanism of action and therapeutic uses of Glyceryl trinitrate.

II. Write Notes on: **(10 x 1.5 = 15)**

1. Drug therapy in myocardial infarction
2. Complications of General anaesthesia.
3. Therapeutic uses of prostaglandins
4. Sodium valproate.
5. Aectazolamide
6. Pre anaesthetic medication.
7. Management of status asthmaticus.
8. Therapeutic uses of cholinergic drugs.
9. Osmotic diuretics
10. Therapeutic uses of atropine and its substitutes

III. Short Answers on: **(10 x 1 = 10)**

1. Mention four antiasthmatic drugs
2. Enumerate four routes of drug administration
3. Mention four anti psychotic drugs.
4. Define anaphylaxis with a suitable example.
5. Mention four contraindication for morphine
6. Mention four drugs for Gout.
7. Give two examples of drugs administered by Transdermal route.
8. Enumerate the methods for prolongation of drug action.
9. Explain physiological antagonism with one example
10. Treatment of drug allergy

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[LF 544] **AUGUST 2014** **Sub. Code: 4065**

SECOND YEAR M.B.B.S DEGREE EXAMINATION

Paper I – PHARMACOLOGY - I

Q. P. Code: 524065

Time: Three Hours **Maximum: 40 Marks**

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Elaborate on: **(2 x 7.5 = 15)**

1. Define Biotransformation.
   Describe briefly the various biotransformation reactions.
2. Enumerate antiepileptic drugs.
   Discuss the pharmacology of drugs acting on GABA receptors.

II. Write Notes on: **(10 x 1.5 = 15)**

1. Selective serotonin reuptake inhibitors
2. Opioid receptors
3. Ipratropium bromide
4. Ocular hypotensives
5. Sumatriptan
6. Treatment of acute gout
7. Class 3 antiarrhythmics
8. Losartan
9. Bromocriptine
10. COX-2 inhibitors

III. Short Answers on: **(10 x 1 = 10)**

1. Drug potency vs efficacy
2. What is iatrogenic disease. Give 2 EXAMINATIONples
3. Eutectic mixture
4. Cholinergic crisis
5. Ebastine
6. Treatment of acute paracetamol poisoning
7. Ondansetron
8. What are the antihypertensives to be avoided in pregnancy. Give reasons
9. Contraindications of heparin
10. Uses of acetazolamide.

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[LG 544] **FEBRUARY 2015** **Sub.Code :4065**

M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER I – PHARMACOLOGY I

Q.P. Code: 524065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. Classify Non-steroidal anti inflammatory drugs. Write the mechanism of action, pharmacological actions, therapeutic uses and adverse effects of Salicylates.

II. Write notes on: **(4 x 5 = 20)**

1. Drug therapy of Parkinsonism
2. Mechanism of action and uses of antiplatelet drugs
3. Pharmacotherapy of migraine
4. Mechanism of action of Phenytoin

III. Short answers on: **(5 x 2 = 10)**

1. Cholinesterase reactivators in organophosphorus poisoning
2. Heparin versus warfarin
3. Role of glucocorticoids in bronchial asthma
4. Drug therapy for chronic gout
5. Mechanism of action of d-tubocurarine

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[LH 544] **AUGUST 2015** **Sub. Code: 4065**

SECOND M.B.B.S. DEGREE EXAMINATION

PAPER I – PHARMACOLOGY - I

Q.P. Code: 524065

Time : Three Hours **Maximum : 40 marks**

Answer ALL questions

I. Elaborate: **(1 x 10 = 10)**

1. Discuss various factors modifying a drug's actions.
   Write briefly about Pharmacogenetics.

II. Write notes on : **(4 x 5 = 20)**

1. Atypical antipsychotics.
2. Salbutamol.
3. Dicyclomine.
4. Spironolactone.

III. Short answers on : **(5 x 2 = 10)**

1. Nimesulide.
2. Name four antiarrythmics.
3. Name four peripherally acting skeletal muscle relaxants.
4. Ketorolac.
5. Four adverse effects of furosemide.

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