April-2001

[KD 133] **Sub. Code : 2030**

M.D. DEGREE EXAMINATION.

Branch VI — Pharmacology

(Revised Regulations)

Paper IV — APPLIED PHARMACOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Classify antiviral drugs — Discuss their mechanism of action, therapeutic indications and status in therapy. Add a note on their untoward effects. (25)

2. Discuss the recent advances in the pharmacotherapy of parkinsonism. Outline their mechanism of action and untoward effects. Add a note on their status in therapy. (25)

3. Write briefly on : (5 × 10 = 50)

(a) Therapeutic drug monitoring — its indications and benefits.

(b) Bioequivalence of drugs.

(c) Ivermectin — its mechanism of action, uses and untoward effects.

(d) Principles of spectrophotometry.

(e) Pharmacological rationale in the use of N–Acetyl cysteine in Paracetamol over dosage.

November-2001

[KE 133] **Sub. Code : 2030**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Pharmacology

Paper IV — APPLIED PHARMACOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Describe the physiological mechanisms of elimination of water and electrolytes by the kidneys. Explain the mechanisms of action, uses and adverse effects of DIURETICS. (25)

2. Describe the various steps in the NOR ADRENERGIC neurotransmission. Explain the mechanisms by which drugs block the transmission. What are the therapeutic usefulness and adverse effects of such drugs. (25)

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

   (a) Drugs inhibiting platelet function.

   (b) Lovastatin.

   (c) Newer H–1 receptor antagonists.

   (d) Prokinetic agents.

   (e) Praziquantel.

March-2002

[KG 133] **Sub. Code : 2030**

M.D. (Pharmacology) DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Pharmacology

Paper IV — APPLIED PHARMACOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Discuss the drug therapy in Tuberculosis in developing (underdeveloped) countries with a special note on management of patients resistant to first line drugs. (25)

2. Discuss the recent advances in the management of Type II or noninsulin dependent diabetes mellitus. (25)

3. Write briefly on : (5 × 10 = 50)

   (a) Essential drugs.

   (b) Use of drugs in pregnancy.

   (c) Treatment of chloroquine resistant malaria.

   (d) Emergency contraception.

   (e) Gene therapy.

[KII 133] **Sub. Code ! 2030**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Pharmacology

Paper IV — APPLIED PHARMACOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Mention the principles of immuno–pharmacology. Discuss in detail the current status of immuno–suppressives in treatment of various diseases. (25)

2. Discuss the recent advances in the pharmacotherapy of generalized tonic–clonic seizures. Mention the mechanism action, uses and adverse reactions of each class of drugs. (25)

3. Write briefly on : (5 × 10 = 50)

(a) Organophosphorous compounds poisoning and its treatment

(b) Foscarnet–mechaniam of action and uses

(c) Spectrophotometry in pharmacology

(d) Drug reservoirs

(e) Placental transfer of drugs and its importance.

April-2003

[KI 133] **Sub. Code : 2030**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Pharmacology

Paper IV — APPLIED PHARMACOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Describe antioxidants. Add a note on their physiological and pharmacological relevance. (25)

2. Write in detail about the recent concepts in adrenergic transmission. Give details of drugs that act as antihypertensives at the sympathetic system. (25)

3. Write briefly on : $(5 \times 10 = 50)$

(a) Role of beta-blockers in congestive cardiac failure

(b) Essential drugs

(c) Randomization

(d) Pravastatin – mechanism of action and current status

(e) Enzymes in therapy.

[KJ 133] **Sub. Code : 2030**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Pharmacology

Paper IV — APPLIED PHARMACOLOGY

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

M.C.Q. must be answered **SEPARATELY** on the answer sheet provided as per the instructions on the first page.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

1. Describe the Pharmocotherapy of Hyperlipo–proteinemeias. Add a note on recent drugs also. (15)

2. Describe the drugs affecting the 5 HT system (Agonist and Antagonist). (15)

3. Write briefly on : (10 × 5 = 50)

(a) Insulin resistance and its management.

(b) Current status of selective COX–2 inhibitors.

(c) Newer approaches of the drug therapy in CCF.

(d) Current status of Erythropoietin.

(e) Anti platelet drugs.

(f) Current status of Fluroquinolones.

(g) Platinum compounds in therapy.

(h) Immunostimulants.

(i) Infliximab.

(j) Newer Amphotericin–B formulation and their advantages.

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[KL 133] **Sub. Code : 2030**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Pharmacology

Paper IV — APPLIED PHARMACOLOGY

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. Essay : (2 × 15 = 30)

(1) Discuss the pharmacological and therapeutic aspects of drugs used in conjestive cardiac failure. (15)

(2) Discuss in brief about drugs used for treatment of schizophrenia. (15)

II. Write short notes on : (10 × 5 = 50)

(a) Spectrophotometry in pharmacology.

(b) Newer antimalarials.

(c) Drugs for pneumocystis carinii infection.

(d) Enzyme induction.

(e) Ivermectin.

(f) Anti pseudomonal drugs.

(g) Anti progestins.

(h) Newer approaches to post-operative analgesia.

(i) Nicorandil.

(j) Fixed dose combinations.

[KM 133] **Sub. Code : 2030**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Pharmacology

Paper IV — APPLIED PHARMACOLOGY

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. Essay : (2 × 15 = 30)

(1) Discuss the physiology of gastric secretion and explain rationale and pharmacological bases of different classes of drugs used to treat acid–peptic disease.

(2) Give an overview of ocular anatomical and physiological aspects with respect to aqueous humor dynamics. Identify the sites of action of drugs used to reduce Intraocular pressure.

II. Write short notes on : (10 × 5 = 50)

(a) Thrombopoitin

(b) Biostandardisation

(c) HPLC

(d) Mechanism of bacterial resistance to antimicidial agents

(e) Action of Thyroid hormones

(f) Students 't' test

(g) Immunosuppressants

(h) Non parametric tests

(i) Rationale of drugs used in Myasthenia gravis

(j) Pharmacoepidemidogy.

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[KO 133] **Sub. Code : 2028**

M.D. DEGREE EXAMINATION.

Branch VI — Pharmacology

Paper IV — APPLIED PHARMACOLOGY

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.

I. Essay questions : (2 × 15 = 30)

(1) Describe the molecular models and sites of action of general anaesthetics with regard to ion channels.

(2) Describe the interactions between Monoamines, Gaba and Glutamate in Schizo–Phrenia.

II. Writ short notes on : (10 × 5 = 50)

(a) Applied aspects of Vitamin D and its synthetic analogs.

(b) Possible drug actions on adenosine receptors in central nervous system.

(c) Drug polymorphism.

(d) Colony stimulating factors.

(e) Clinical relevance of orders of kinetics.

(f) Mechanisms related to reduction in Intra Ocular tension.

(g) Relation of pharmacological actions of Glucocorticoids to their clinical uses and adverse effects.

(h) Mechanisms related to antiemetic effects of drugs.

(i) Mechanisms of antibacterial action.

(j) Mechanisms related to inhibition of platelet aggregation.

[KP 133] **Sub. Code : 2028**

M.D. DEGREE EXAMINATION.

Branch VI — Pharmacology

Paper IV — APPLIED PHARMACOLOGY

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. Essay :

(1) Enzyme inhibition as a target of drug action — Discuss in relation to chemotherapy. (20)

(2) Explain the physiology of gastric acid secretion and pharmacotherapy of acid peptic disease. (15)

(3) Discuss the therapeutic and diagnostic applications of drugs in opthalmology. (15)

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

(a) Treatment of osteoporosis

(b) Pharmacological actions and potential therapeutic uses of melatonin

(c) Drugs used in obesity

(d) Contraception in male

(e) Non-parametric tests

(f) Newer sedatives and hypnotics.

[KQ 127] **Sub. Code : 2028**

M.D. DEGREE EXAMINATION.

Branch VI — Pharmacology

APPLIED PHARMACOLOGY

Common to :

Paper IV — (Old/New/Revised Regulations)

(Candidates admitted from 1988-89 onwards)

and

Paper IV — (For candidates admitted from 2004-2005 onwards)

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. Essay :

1. Describe the physiology and discuss the potential therapeutic role of Glucagon like peptide-I. (20)

2. Summarize the recent trends on the role of the Nitrergic nervous system. (15)

3. Describe the pleiotropic effects of statins. (15)

II. Short notes. (6 × 5 = 30)

(a) Corticosteroids as replacement therapy.

(b) Environmental pharmacology.

(c) T cell inhibitors as Immunosuppressants.

(d) Random sampling – Describe.

(e) Radioactive isotopes.

(f) 'Mitotic spindle poisons'.

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[KR 129] **Sub. Code : 2026**

M.D. DEGREE EXAMINATION.

Branch VI — Pharmacology

APPLIED PHARMACOLOGY

Common To

Paper IV — (Old/New/Revised Regulations)

(Candidates admitted from 1988-89 onwards)

and

Paper IV — (For candidates admitted from 2004-2005 onwards)

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.

I. Essay questions :

1. Discuss the physiology of gastric acid secretion and how the drugs influence it. (20)

2. Discuss the pathophysiology and management of Alzheimer's disease. (15)

3. Discuss the role of anticytokines in the therapy of rheumatoid arthritis. (15)

II. Write short notes : (6 × 5 = 30)

(a) Ergogenics.

(b) Estramustine.

(c) Carbapenems.

(d) Malignant hyperthermia.

(e) Curcuma longa.

(f) Therapeutic potential of melatonin as a neuroprotector.

MARCH 2008

[KS 128] **Sub. Code : 2025**

M.D. DEGREE EXAMINATION.

Branch VI — Pharmacology

APPLIED PHARMACOLOGY AND FORENSIC PHARMACOLOGY

Common to all Regulations

Q.P. Code : 202025

Time : Three hours Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay : ($2 \times 20 = 40$)

1. Discuss the Physio Pharmacology of Central Neurotransmitters.
2. Discuss Cephalosporins in clinical utility. Discuss the merits and demerits of third generation Cephalosporins as compared to Fluoroquinolones.

II. Write short notes on : ($10 \times 6 = 60$)

1. Drug therapy of cancer chemotherapy induced vomiting.
2. Disadvantages of fixed dose combination formulations.
3. Differential PK and PD of macrolides.
4. Antioxidants and its therapeutic potential.
5. Newer approaches in post operative analgesia.
6. Rational use of drugs.
7. Newer abortificants.
8. Anti Pseudomonal drugs.
9. Carbon–monoxide.
10. Unithol.

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March 2009

[KU 128] **Sub. Code: 2025**

M.D. DEGREE EXAMINATION

Branch VI – PHARMACOLOGY
(Common to all candidates)
Paper IV – APPLIED PHARMACOLOGY AND FORENSIC PHARMACOLOGY
Q.P. Code : 202025

Time : Three hours **Maximum : 100 marks**

Draw suitable diagram wherever necessary.
Answer ALL questions.

I. Essay questions : **(2 x 20 = 40)**

1. Discuss the structure activity relationship of opioids and opioid antagonists.
   Briefly describe the pharmacology of newer mixed agonists and antagonists of opioid receptors.

2. Discuss the pharmacotherapy of first line drugs in the treatment of tuberculosis.

II. Write short notes on : **(10 x 6 = 60)**

1. Vasopeptidasse inhibitors.
2. Pharmacoepidemiology.
3. Newer macrolides.
4. Clinical pharmacology of antiemetics and prokinetic drugs.
5. Drug abuse in sports.
6. Drugs used in glaucoma.
7. Non compartmental pharmacokinetic analysis.
8. New treatments for anxiety disorders.
9. Nutraceuticals.
10. Pharmaological actions and potential therapeutic uses of melatonin.

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September 2009

[KV 128] **Sub. Code: 2025**

M.D. DEGREE EXAMINATION

Branch VI – PHARMACOLOGY
(Common to all candidates)
Paper IV – APPLIED PHARMACOLOGY AND FORENSIC PHARMACOLOGY
Q.P. Code : 202025

Time : Three hours **Maximum : 100 marks**

Draw suitable diagram wherever necessary.
Answer ALL questions.

I. Essay questions : **(2 x 20 = 40)**

1. Describe the drugs affecting potassium channels and their clinical importance.

2. Describe the various types, their location, cellular mechanisms on stimulation, functions and antagonists of alpha receptors.

II. Write short notes on : **(10 x 6 = 60)**

1. Non renal drug elimination.
2. Clinical importance of perinatal pharmacology.
3. Different methods of preventing platelet aggregation.
4. Newer antiepileptic drugs.
5. Drugs inhibiting gastric acid secretion.
6. Drugs affecting central cholinergic transmission.
7. Newer developments in insulin administration.
8. Campothecins and taxanes as anti cancer agents.
9. Pharmaco economics.
10. Randomization and use of placebo in a drug trial.

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March 2010

[KW 128] **Sub. Code: 2025**

M.D. DEGREE EXAMINATION

Branch VI – PHARMACOLOGY
(Common to all candidates)
Paper IV – APPLIED PHARMACOLOGY AND FORENSIC PHARMACOLOGY
Q.P. Code : 202025

Time : Three hours **Maximum : 100 marks**

Draw suitable diagram wherever necessary.
Answer ALL questions.

I. Essay questions : **(2 x 20 = 40)**

1. Indicate the site of action of diuretics and write how the site and mechanism correlate with clinical use.

2. How will you treat nosocomial infection due to multi drug resistant strain of: **a)** Staphylococcus aureus. **b)** Pseudomonas aeruginosa.

II. Write short notes on : **(10 x 6 = 60)**

1. Combination of 5- flucytosine and amphotericin – B.
2. How do you treat acute iron poisoning in a child?
3. Write treatment of poisoning due to strychnine.
4. Correlate the receptor activity with pharmacological action in case of opioids.
5. Haemodialysis.
6. Fast tracking in clinical research.
7. Phenobarbitone overdose.
8. Substance abuse in street children.
9. Toxicity of oestrogens.
10. Cyanide poisoning and treatment

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September 2010

[KX 128] **Sub. Code: 2025**

M.D. DEGREE EXAMINATION

Branch VI – PHARMACOLOGY

Paper IV – APPLIED PHARMACOLOGY AND FORENSIC PHARMACOLOGY

(Common to all candidates)

Q.P. Code : 202025

Time : Three hours **Maximum : 100 marks**

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : **(2 X 20 = 40)**

1. Discuss the methods to evaluate a newly designed antihypertensive drug in Humans.

2. Discuss the Newer Insulins' and their use in clinical practice.

II. Write short notes on : **(10 X 6 = 60)**

1. Global Pharmacovigilance.
2. Anti obesity drugs.
3. Over the counter sale of drugs.
4. Drugs inhibiting platelet aggregation.
5. Phenobarbitone overdose.
6. Danazol.
7. Alprazolam over dosage.
8. Substance abuse.
9. Tamoxifen.
10. Insecticide poisoning and its treatment.

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MAY 2011

[KY 128] **Sub. Code: 2025**

M.D. DEGREE EXAMINATION

BRANCH VI – PHARMACOLOGY

APPLIED PHARMACOLOGY INCLUDING FORENSIC PHARMACY

Q.P. Code : 202025

Time : 3 hours **Maximum : 100 marks**
(180 Min)

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
I. Essay:			
1. Discuss in detail mechanism of action of antidepressants.	6	15	10
2. Discuss the general principles of antimicrobial therapy.	6	15	10
II. Short Questions:			
1. Therapeutic uses of ACE inhibitors.	3	8	5
2. Digitalis as an antiarrhythmic drug.	3	8	5
3. Mechanism of action of lithium.	3	8	5
4. Tobramycin.	3	8	5
5. Succimer.	3	8	5
6. Value of a toxicology laboratory in a hospital.	3	8	5
7. Probiotics.	3	8	5
8. Cyclosporine.	3	8	5
III. Reasoning Out:			
1. Use of gonadotropin releasing hormone in treating infertility.	4	10	5
2. Use of beta adrenergic blockers in migraine.	4	10	5
3. Value of crossover design trials in drug trials.	4	10	5
4. Post-marketing surveillance of new drugs.	4	10	5
IV. Very Short Answers :			
1. Mechanism of action of heparin.	1	4	2
2. James Black.	1	4	2
3. List adverse effects of Clindamycin.	1	4	2
4. List therapeutic uses of spectinomycin.	1	4	2
5. Calcimimetics.	1	4	2
6. Mechanism of action of propylthiouracil.	1	4	2
7. Adverse effects of sirolimus.	1	4	2
8. Mechanism of action of acyclovir.	1	4	2
9. List therapeutic uses of phenylephrine.	1	4	2
10. Mention adverse effects of clonidine.	1	4	2

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APRIL 2012

[LA 128] **Sub. Code: 2025**

M.D. DEGREE EXAMINATION
BRANCH VI – PHARMACOLOGY
APPLIED PHARMACOLOGY AND LAWS GOVERNING DRUG REGULATIONS
Q.P. Code : 202025

Time : 3 hours **Maximum : 100 marks**
(180 Min)

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
I. Essay:			
1. Briefly describe the surveillance methods used in detecting adverse drug reactions?	9	15	10
2. Discuss the principles of Geriatric clinical pharmacology and therapeutics.	9	15	10
II. Short Questions:			
1. Patient compliance.	3	8	5
2. Drugs offering anesthesia.	3	8	5
3. Mushroom poisoning.	3	8	5
4. Emergency contraception.	3	8	5
5. Performance enhancing drugs.	3	8	5
6. Nitric oxide.	3	8	5
7. Corrosive acid poisoning.	3	8	5
8. Chelation.	3	8	5
III. Reasoning Out:			
1. Plumbism	5	10	5
2. Placental transfer of drugs and its importance.	5	10	5
3. Enzymes in therapy.	5	10	5
4. Mitotic spindle poisons.	5	10	5
IV. Very Short Answers:			
1. What are drugs used in erectile dysfunction?	1	4	2
2. What is the importance of aging of enzyme?	1	4	2
3. Enumerate mood stabilizers.	1	4	2
4. Therapeutic advantage of GLP-I in diabetic mellitus.	1	4	2
5. Role of K channel openers in Angina pectoris.	1	4	2
6. Enumerate glycoprotein II b / III a Receptor antagonists.	1	4	2
7. Explain passive cumulation with example.	1	4	2
8. Natural products in cancer chemotherapy.	1	4	2
9. Rationale of ethanol in methanol poisoning	1	4	2
10. Enumerate the drugs produced by Recombinant DNA technology and their advantages.	1	4	2

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(LC 128) **APRIL 2013** **Sub. Code: 2025**

M.D. DEGREE EXAMINATION
BRANCH VI-PHARMACOLOGY

APPLIED PHARMACOLOGY& LAWS GOVERNING DRUG REGULATIONS

Q.P. Code : 202025

Time: Three Hours **Maximum: 100 marks**

I. Essay: **(2X10=20)**

1. Applied pharmacology of immunosuppresants
2. Role of drugs in the maintenance of calcium homeostasis

II. Short Questions: **(8X5=40)**

1. Melatonin
2. Stem cell therapy
3. Therapeutic applications of botulinium toxin
4. Drug therapy of erectile dysfunction
5. Sunscreen
6. Alvimopan
7. HPLC
8. Nanoparticles in pharmacology

III. Reasoning Out: **(4X5=20)**

1. Vasodilators in pulmonary arterial hypertension
2. Spironolactone in hypertension
3. Atropine in mushroom poisoning
4. Cheese reaction

IV. Very Short Answers: **(10X2=20)**

1. Drugs and cosmetics act
2. Non analgesic use of opioids
3. Advantages of multidrug therapy
4. Jarisch-hexheimer reaction
5. Uses of methotrexate
6. Twilight sleep
7. Inhaled insulin
8. Drugs for amoebiasis
9. Thrombolytic agents
10. Oral Rehydration Therapy

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[LD 128] **OCTOBER 2013** **Sub. Code: 2025**

M.D. DEGREE EXAMINATION

BRANCH VI – PHARMACOLOGY

APPLIED PHARMACOLOGY& LAWS GOVERNING DRUG REGULATIONS

Q.P. Code : 202025

Time: Three Hours **Maximum: 100 marks**

I. Essay: **(2 x 10 = 20)**

1. Write in details the current update on GOUT. Mention the Mechanism of action and ADR of corticosteroids.

2. Discuss in detail the pathophysiology and current update on the treatment of hepatitis.

I II. Short Questions: **(8 x 5 = 40)**

1. Schedule Y.
2. Human ethics committee function and organization.
3. Treatment of systemic candidiasis.
4. Antibiotic policy.
5. Carbon dioxide uses.
6. Ether.
7. Therapeutic drug monitoring.
8. Biomarkers in therapeutics.

III. Reasoning Out: **(4 x 5 = 20)**

1. Drug induced vomiting.
2. Cyclical chemotherapy.
3. Oxygen toxicity.
4. Poisoning and Forced alkaline diuresis.

IV. Very Short Answers: **(10 x 2 = 20)**

1. Liniments.
2. Advantages of nebulizer.
3. PUVA therapy.
4. Parenteral Paracetamol.
5. Mouth dissolving tablets.
6. BEST trial.
7. Artificial tear.
8. Mycofenolate Mofetil.
9. Finasteride.
10. Nanotechnology.

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(LE 128) **APRIL 2014** **Sub. Code:2025**

M.D. DEGREE EXAMINATION

BRANCH VI - PHARMACOLOGY

APPLIED PHARMACOLOGY & LAWS GOVERNING DRUG REGULATIONS

Q.P.Code: 202025

Time: Three Hours **Maximum: 100 marks**

I. Essay: **(2X10=20)**

1. Describe the treatment line of Endocrinal emergencies.
2. Discuss the pharmacology of drug used in Acute Lymphoproliferative disorders.

II. Short Answers: **(8X5=40)**

1. Drugs causing movement disorders and their management.
2. Management of Ventricular Arrhythmias.
3. Schedule Y drugs.
4. d-Penicillamine.
5. Merits and demerits of different treatment regimen in HIV therapy.
6. Agents used in treatment of smoking cessation.
7. Newer drugs in anxiety disorder management.
8. Calcimimetics.

III. Reasoning Out: **(4X5=20)**

1. N-acetyl cysteine in paracetamol poisoning.
2. Liposome based drug delivery system.
3. Antidepressants in pain management.
4. Proton pump inhibitors in Acid Peptic Disease.

IV. Very Short Answers: **(10X2=20)**

1. Treatment of XDR Tuberculosis.
2. Drug therapy of Primary Pulmonary Hypertension.
3. Integrase inhibitors.
4. Role of Nutraceuticals in Diabetes management.
5. Protamine sulphate.
6. Management of Cyanide Poisoning.
7. Drugs causing Hepatocellular damage.
8. Agents used for reducing absorption of poisons.
9. Mechanism of action of Allopurinol.
10. Cheese reaction.

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(LF 128) **OCTOBER 2014** **Sub. Code:2025**

M.D. DEGREE EXAMINATION

BRANCH VI - PHARMACOLOGY

PAPER IV - APPLIED PHARMACOLOGY AND LAWS GOVERNING DRUG REGULATIONS

Q.P.Code: 202025

Time: Three Hours **Maximum: 100 marks**

I. Essay: **(2 x 10 = 20)**

1. Discuss the drugs affecting potassium channels and their clinical importance.
2. Discuss in detail the mechanisms of action and adverse effects of antidepressants.

II. Short Questions: **(8 x 5 = 40)**

1. Pre-screening toxicity tests.
2. National Pharmacovigilance program of India
3. Drug Nomenclature.
4. Oxidative stress.
5. Endothelium derived factors.
6. Nanotechnology.
7. Liposome based delivery systems.
8. Treatment of panic disorder.

III. Reasoning Out: **(4 x 5 = 20)**

1. Pre-dose sampling for Therapeutic drugs monitoring.
2. Withdrawal of Rofecoxib.
3. New Amphotericin B formulations.
4. Metformin in polycystic ovary disease.

IV. Very Short Answers: **(10 x 2 = 20)**

1. Adverse effects of Sirolimus.
2. Good clinical practice.
3. List two medicinal plants as sources of antioxidants.
4. Patient compliance.
5. Adverse drug events.
6. Drug Advisory Committee.
7. Ocular drug delivery.
8. Treatment of Panic attacks.
9. Twilight sleep.
10. List four drugs used in treating acne.

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