

April-2001

[KD 132]

Sub. Code : 2029

M.D. DEGREE EXAMINATION.

Branch VI — Pharmacology

(Revised Regulations)

Paper III — CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING
RECENT ADVANCES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. List the drugs used in the therapy of migraine giving the pharmacological rationale. Discuss the pharmacological actions, mechanism of actions and untoward effects of Sumatriptan. Add a note on its current therapeutic status. (25)
 2. Discuss the Pharmacological actions and Physiological functions of platelet activating factor (P A F). What are the possible uses of P A F antagonists in therapy? (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Nabumetone – Mechanism of action, untoward effects and uses.
 - (b) Cisapride – Mechanism of action and uses.
 - (c) Eradication of Helicobacter Pylori infection.
 - (d) Drug therapy of Leishmaniasis.
 - (e) Status of Disulfiram in alcohol de-addiction.
-

[KE 132]

Sub. Code : 2029

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Pharmacology

**Paper III — CLINICAL PHARMACOLOGY AND
PHARMACO-THERAPEUTICS AND RECENT
ADVANCES**

Time : Three hours

Maximum : 100 marks

1. Describe the pathophysiology of Angina Pectoris. Give an account of the mechanisms of action and adverse effects and precautions for ANTI-ANGINAL DRUGS. Add a note on drug treatment of angina pectoris. (25)
 2. Discuss the drug treatment of Tuberculosis, with special emphasis on the various treatment regimens and their relative merits and demerits. Add a note on chemoprophylaxis of Tuberculosis. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Antimicrobial combinations – use and misuse.
 - (b) Multidrug Resistant Enteric fever – Drug treatment.
 - (c) Drug treatment of cancer pain.
 - (d) Precautions with the use of Lithium
 - (e) Buspirone.
-

March-2002

[KG 132]

Sub. Code : 2029

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Pharmacology

Paper III — CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING RECENT
ADVANCES

Time : Three hours,

Maximum : 100 marks

Answer ALL questions.

1. Discuss the clinical pharmacology of drugs used in the treatment of Bronchial asthma with a special note on the role of corticosteroids in the management of Asthma.

(25)

2. Explain in detail the clinical pharmacology of antianginal drugs with a special note on prophylaxis in chronic angina.

(25)

3. Write briefly on :

(5 × 10 = 50)

(a) Therapeutic drug monitoring.

(b) DNA delivery systems.

(c) Ocular pharmacology.

(d) Antioxidants.

(e) COX-II (Cyclooxygenase II) inhibitors.

September-2002

[KH 132]

Sub. Code : 2029

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Pharmacology

Paper III — CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING RECENT
ADVANCES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Enumerate the drugs used in insomnia. Mention the pharmacological rationale for each class of drugs. What is the current status of Zolpidem and Zopiclone in therapy? (25)
 2. Discuss in detail the inhibitors of Renin-Angiotensin system. Add a note on the pharmacology of Losartan. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Pharmacology of Apazone (Azapropazone)
 - (b) Ondansetron—mechanism of action and uses
 - (c) Uses and abuses of laxatives in clinical practice
 - (d) Drug therapy of filariasis
 - (e) Importance of forced diuresis in the management of drug poisoning.
-

April-2003

[KI 132]

Sub. Code : 2029

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Pharmacology

Paper III — CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING RECENT
ADVANCES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. What is therapeutic drug monitoring? Describe the clinical relevance of therapeutic drug monitoring giving suitable examples. (25)
 2. Describe the therapeutic status of the drugs affecting dopaminergic mechanisms. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Monoclonal antibodies in cancer chemotherapy
 - (b) Newer drugs used for systemic fungal infections
 - (c) Peptides in brain and their clinical uses
 - (d) Enzyme inhibitors in chemotherapy
 - (e) Pharmacological rationale of Naloxone in septicaemic shock.
-

[KJ 132]

Sub. Code : 2029

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Pharmacology

**Paper III — CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING RECENT
ADVANCES**

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

**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. Current approach to the drug therapy of bronchial
asthma. (15)**

**2. Describe the Pharmacology of Class - I Anti-
arrhythmic drugs. Add a note on the development of
cardiac arrhythmias. (15)**

3. Write briefly on : (10 × 5 = 50)

**(a) Post menopausal hormone replacement
therapy (HRT)**

(b) Triple drug therapy of peptic ulcer

(c) Potassium channel openers in therapy

(d) Hyperbaric oxygen and its in therapy

(e) Thiazolidinediones

(f) Human interferons

(g) Current status of Gene therapy

(h) Low molecular weight heparins

(i) Cyclophosphamid

**(j) Possible future strategies of cancer
chemotherapy.**

[KL 132]

Sub. Code : 2029

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Pharmacology

**Paper III — CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING
RECENT ADVANCES**

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 current trends in the management of Broncheal asthma with a note on inhaler devices.

(2) Discuss the current treatment strategies of HIV infection.

II. Write short notes on :

(10 × 5 = 50)

- (a) Amrinone.
- (b) Antioxidents.
- (c) Treatment of H. Pylori infection.
- (d) Treatment of Erectile dysfunction.
- (e) Tacrine.
- (f) Phase IV clinical evaluation.
- (g) Placebo.
- (h) Enzyme reactivators.
- (i) Treatment of ulcerative colitis
- (j) Therapeutic drug monitoring.

[KM 132]

Sub. Code : 2029

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VI — Pharmacology

Paper III — CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING RECENT
ADVANCES

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 procedure of 'Double Blind
Clinical Trial'

(2) Discuss the Pharmacotherapy of malaria
caused by Chloroquine resistant *P. falciparum*.

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

(a) Treatment of ventricular arrhythmias.

(b) Chemoprophylaxis of Tuberculosis.

(c) Fluoxetine.

(d) Uses of Prostaglandin's.

(e) Ethical Committee.

(f) Pharmacovigilance.

(g) Hormonal antagonists in cancer
chemotherapy.

(h) Atypical antipsychotics.

(i) Antipseudomonal drugs

(j) Gonadorelin.

[KO 132]

Sub. Code : 2027

M.D. DEGREE EXAMINATION.

Branch VI — Pharmacology

**Paper III — CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING RECENT
ADVANCES**

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. Essay : (2 × 15 = 30)

(1) Describe the molecular mechanisms of resistance in Antimalarial Chemotherapy.

(2) Describe the current status of Nucleoside and Non-Nucleoside reverse transcriptase inhibitors.

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

(a) P – Glycoprotein

(b) Institutional ethical committee—its composition and functions.

(c) Nitroimidazoles – Mechanism of action, uses and adverse effects.

(d) Management of Multi Drug resistant tuberculosis.

(e) Newer drugs in the management of Staphylococcal infections.

(f) Role of placebo in a clinical trial.

(g) Drugs for the management of migraine.

(h) Endothelin receptor antagonists.

(i) Selective oestrogen receptor modifiers (SERM)

(j) Particular toxic effect of Busulfan, Vincristine, Cisplatin, Cyclophosphamide and Methotrexate.

[KP 132]

Sub. Code : 2027

H

Write short notes on :-

(6 × 5 = 30)

M.D. DEGREE EXAMINATION.

Branch VI — Pharmacology

**Paper III — CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING RECENT
ADVANCES**

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. Discuss the recent advances in the treatment of
viral infections. (20)

2. Discuss the factors influencing and methods to
improve patient compliance. (15)

3. Discuss in detail the toxicokinetics,
toxicodynamics and the management of a poisoned
patient. (15)

(a) Polymerase chain reaction

(b) Thalidomide

(c) Current Status of Leukotriene Antagonists

(d) Dofetilide

(e) Anti Pseudomonal Drugs

(f) New drug delivery systems.

[KQ 126]

Sub. Code : 2027

M.D. DEGREE EXAMINATION.

Branch VI — Pharmacology

**CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING RECENT
ADVANCES**

Common To

Paper III — (Old/ New/Revised Regulations)

(Candidates admitted from 1988-89 onwards)

and

**Paper III — (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. Discuss variations in clinical pharmacokinetic
parameters as seen in the Paediatric and Geriatric age
groups. (20)**

**2. Discuss therapeutic applications for common
drugs of global abuse. (15)**

**3. Describe the national guidelines with emphasis on
pharmacotherapy for the control of Tuberculosis. (15)**

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

(a) Chemoprophylaxis.

(b) Pharmacotherapy of osteoporosis.

(c) Erythropoietin.

(d) Protease Inhibitors in treatment of AIDS.

(e) Bioequivalence studies.

(f) Pharmacotherapy of migraine.

[KR 128]

Sub. Code : 2025

M.D. DEGREE EXAMINATION.

Branch VI — Pharmacology

CLINICAL PHARMACOLOGY AND PHARMACOTHERAPEUTICS INCLUDING RECENT ADVANCES

Common To

Paper III — (Old/New/Revised Regulations)

(Candidates admitted from 1988-89 onwards)

end

Paper III — (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. Long Essay :

1. Discuss the role of virus-based vectors for gene transfer. (20)
2. What are the physiological barriers to drug distribution and their role in drug action? (15)

3. Discuss in detail about high performance liquid chromatography and its role in Patient's care and research. (15)

II. Write short notes on :

(6 x 5 = 30)

- (a) Loading dose.
- (b) Anakinra.
- (c) Neuropeptide Y.
- (d) Duties and responsibilities of ethics committee.
- (e) Informed consent.
- (f) Tolterodine.

MARCH 2008

[KS 127]

Sub. Code : 2024

M.D. DEGREE EXAMINATION.

Branch VI — Pharmacology

CLINICAL PHARMACOLOGY AND PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES

(Common to All Regulations)

Q.P. Code : 202024

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

- I. Essay questions : (2 × 20 = 40)
1. Discuss the special pharmacokinetic factors and pharmacodynamic differences of perinatal and paediatric pharmacology.
 2. Discuss various clinically used immunosuppressive agents.
- II. Write short notes on : (10 × 6 = 60)
1. Topical antibacterial preparations.
 2. Over the counter drugs.
 3. Rational prescribing.
 4. "P" drug selection.
 5. Bioavailability studies.
 6. Hormonal antagonists in Anticancer Therapy.
 7. Clinically used folate synthesis inhibitors.
 8. Bisphosphonates.
 9. Vasopressin analogues.
 10. Recent advances in CCF.
-

March 2009

[KU127]

Sub. Code: 2024

M.D. DEGREE EXAMINATION

Branch VI – PHARMACOLOGY
(Common to all candidates)

Paper III – CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING RECENT ADVANCES
Q.P. Code : 202024

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

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

1. Discuss how genetic factors influence drug effect with suitable examples.
2. Discuss the mechanisms of action, resistance, clinical uses, side effects and drug interactions of second generation flouroquinolones.

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

1. Drug delivery in dermatological diseases.
2. Pharmaco economics.
3. Imatinib mesylate.
4. Drug utilization studies.
5. HRT advantages and disadvantages.
6. Role of placebo.
7. Glycoprotein IIa/IIIa inhibitors.
8. Drug resistance.
9. Drug therapy of Alzheimer's disease.
10. Neuraminidase inhibitors.

September 2009

[KV 127]

Sub. Code: 2024

M.D. DEGREE EXAMINATION

Branch VI – PHARMACOLOGY
(Common to all candidates)

**Paper III – CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING RECENT ADVANCES**

Q.P. Code : 202024

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

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

1. Describe the pharmacotherapy of major depressive illness.
2. Describe different phases of a clinical trial with particular reference to phase II trials.

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

1. Pharmacogenomics
2. Selective dopamine, beta 1 and beta 2 agonists.
3. Compare nalbuphine and tramadol (Please tabulate)
4. Limitations of antiseptics.
5. Gene transfer.
6. Current status of phosphodiesterase III inhibitors.
7. Recent advances in anti HIV therapy.
8. Clinical importance of orders of kinetics.
9. Anti coagulants used in patients with heparin induced thrombocytopenia.
10. How to choose number of patients for a drug trial?

March 2010

[KW 127]

Sub. Code: 2024

M.D. DEGREE EXAMINATION

Branch VI – PHARMACOLOGY
(Common to all candidates)

Paper III – CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING RECENT ADVANCES
Q.P. Code : 202024

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

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

1. Write in detail about the mechanisms and comparative pharmacology of drugs used in rheumatoid arthritis.
2. Describe the recent advances in contraception.

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

1. Amiodarone.
2. Prostaglandins as therapeutic agents.
3. Status of proton pump inhibitors in GIT diseases.
4. Biological response modifiers.
5. Fourth generation cephalosporins.
6. Triple drug regimens.
7. Protease inhibitors in HIV infections.
8. Role of 5 alpha reductase inhibitors and alpha blockers in detrusor sphincter dyssynergia.
9. Rationale of therapeutic utility of cholinergic drugs.
10. Present status of sympathomimetics.

September 2010

[KX 127]

Sub. Code: 2024

M.D. DEGREE EXAMINATION

Branch VI – PHARMACOLOGY

**Paper III – CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING RECENT ADVANCES**

(Common to all candidates)

Q.P. Code : 202024

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. Discuss in detail about the drugs used in the treatment of Osteoporosis.
2. Discuss the therapeutic uses of Prostaglandins in obstetrics.

II. Write short notes on :

(10 X 6 = 60)

1. Antiseptics.
2. Insulin resistance.
3. Topical antibacterial drugs.
4. Drugs in urinary tract disorders.
5. Radioactive isotopes.
6. Antiretroviral therapy.
7. Aspirin in clinical practice.
8. Antioxidants.
9. Rationale of therapeutic utility of cholinergic drugs.
10. Drugs used in preterm labour.

MAY 2011

[KY 127]

Sub. Code: 2024

M.D. DEGREE EXAMINATION
BRANCH VI – PHARMACOLOGY
CLINICAL PHARMACOLOGY AND PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES

Q.P. Code : 202024

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
I. Essay:			
1. Discuss in detail HIV protease inhibitors.	6	15	10
2. Write an essay on drug interactions.	6	15	10
II. Short Questions:			
1. Drug targeting to the brain.	3	8	5
2. Sildenafil.	3	8	5
3. Role of triptans in migraine.	3	8	5
4. Dofetilide.	3	8	5
5. Tardive dyskinesia.	3	8	5
6. Selective estrogen receptor downregulators.	3	8	5
7. Adverse effects of lithium.	3	8	5
8. Ivermectin.	3	8	5
III. Reasoning Out:			
1. Zafirlukast in asthma.	4	10	5
2. Oxybutinin in overactive bladder.	4	10	5
3. Methylphenidate in attention deficit hyperactivity disorder.	4	10	5
4. Thiazide diuretics in Diabetes insipidus.	4	10	5
IV. Very Short Answers :			
1. Define International Normalized Ratio.	1	4	2
2. List adverse effects of zidovudine.	1	4	2
3. Name drugs for treating Torsades de pointes.	1	4	2
4. List therapeutic indications for 5-florouracil.	1	4	2
5. A.G. Gilman.	1	4	2
6. List therapeutic uses of probenecid.	1	4	2
7. List therapeutic uses of vancomycin.	1	4	2
8. List therapeutic uses of mannitol.	1	4	2
9. List therapeutic uses of nicorandil.	1	4	2
10. Mention clinical uses of Bacillus Calmette-Guerin (BCG).	1	4	2

APRIL 2012

[LA 127]

Sub. Code: 2024

**M.D. DEGREE EXAMINATION
BRANCH VI – PHARMACOLOGY
CLINICAL PHARMACOLOGY AND PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES
Q.P. Code : 202024**

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
I. Essay:			
1. Current concepts in the management of Congestive Cardiac Failure.	9	15	10
2. Discuss in detail Antiretroviral agents in the treatment of HIV infection.	9	15	10
II. Short Questions:			
1. Osmotic diuretics.	3	8	5
2. Finasteride.	3	8	5
3. Drugs modifying uptake mechanism.	3	8	5
4. Antitussives.	3	8	5
5. GnRH analogues.	3	8	5
6. Drug treatment of Benign Prostatic Hypertrophy.	3	8	5
7. Drugs modifying steroid Biosynthesis.	3	8	5
8. General toxicities of anticancer drugs.	3	8	5
III. Reasoning Out:			
1. COMT inhibitors in parkinsonism.	5	10	5
2. Role of inhalational steroids in asthma.	5	10	5
3. Management of Paroxysmal supraventricular Tachyarrhythmia.	5	10	5
4. Drugs modulating GABA.	5	10	5
IV. Very Short Answers :			
1. Mention the Keratolytic agent and their uses.	1	4	2
2. Mention progesterone Receptor modulators and their uses.	1	4	2
3. Drugs used in Pseudomonas infection.	1	4	2
4. Enumerate drugs modifying PABA.	1	4	2
5. What are the therapeutic uses of Ivermectin?	1	4	2
6. What is the mechanism of action of oral anti coagulants?	1	4	2
7. Write the common toxicities of amino glycosides.	1	4	2
8. Enumerate topical antibiotic and their uses.	1	4	2
9. Enumerate the selective COX ₂ inhibitors and their advantages.	1	4	2
10. Name the opioid antagonists and the uses.	1	4	2

(LC 127)

APRIL 2013

Sub. Code: 2024

**M.D. DEGREE EXAMINATION
BRANCH VI-PHARMACOLOGY**

**CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES**

Q.P. Code : 202024

Time: Three Hours

Maximum: 100 marks

I. Essay:

(2X10=20)

1. Discuss the drugs modulating parasympathetic neurotransmission.
2. Pharmacotherapy of falciparum malaria.

II. Short Questions:

(8X5=40)

1. Insulin resistance
2. Management of anaerobic infection
3. Drug therapy of migraine
4. PDE inhibitors
5. Anticancer antiemetics
6. Anti Retroviral Therapy
7. Treatment of opioid addiction
8. Direct thrombin inhibitors

III. Reasoning Out:

(4X5=20)

1. Rofecoxib banned- reason out
2. Phenobarbitone in neonatal jaundice
3. Pharmacological implications of nitric oxide
4. GnRH analogues in in-vitro fertilisation

IV. Very Short Answers:

(10X2=20)

1. SPRM
2. Dantrolene – Therapeutic uses
3. Rituxi mab – Pharmacological action
4. Recombinant erythropoietin
5. Therapeutic uses of clonidine
6. Therapeutic uses of hyperbaric oxygen
7. Uricosuric agents
8. Hypertension emergency
9. Non-epileptic uses of carbamazepine
10. Desferrioxamine

[LD 127]

OCTOBER 2013

Sub. Code: 2024

M.D. DEGREE EXAMINATION

BRANCH VI – PHARMACOLOGY

CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS

INCLUDING RECENT ADVANCES

Q.P. Code : 202024

Time: Three Hours

Maximum: 100 marks

I. Essay:

(2 x 10 = 20)

1. Current concepts in the management of Hypertension.
2. Discuss in detail the drug therapy for Bronchial Asthma.

II. Short Questions:

(8 x 5 = 40)

1. GnRH analogues.
2. Loop diuretics.
3. Drugs for Benign Prostatic hypertrophy.
4. Newer drugs for Rheumatoid Arthritis.
5. Drugs modifying steroid biosynthesis.
6. Mifepristone.
7. General Toxicity of Anti-thyroid drugs.
8. Ovulation inducing agents.

III. Reasoning Out:

(4 x 5 = 20)

1. Drugs modulating GABA.
2. Drugs for Atrial arrhythmias.
3. Management of extrapyramidal symptoms.
4. Fetal alcohol syndrome.

IV. Very Short Answers:

(10 x 2 = 20)

1. Drugs used in Pseudomonas infection.
2. What are the common toxicities of aminoglycosides
3. What are the therapeutic uses of Carbamazepine
4. Discuss the use of Triptans in Migraine
5. What is the mechanism of action of Fibrinolytic drugs
6. Use of opioids in Anesthesia
7. Intravenous regional Anesthesia
8. General Toxicity of Heparin
9. INR.
10. BAL.

(LE 127)

APRIL 2014

Sub. Code:2024

**M.D. DEGREE EXAMINATION
BRANCH VI - PHARMACOLOGY
CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES**

Q.P.Code: 202024

Time: Three Hours

Maximum: 100 marks

I. Essay:

(2X10=20)

1. Discuss in detail about the role of the various drugs useful in Gastro Esophageal Reflux Disease.
2. Discuss in detail the pathophysiology and applied aspects of drugs effective in the treatment of Obesity.

II. Short Questions:

(8X5=40)

1. Management of barbiturates toxicity
2. Medical abortion
3. COMT Inhibitors
4. Pregnancy hypertension treatment
5. Central sympatholytics
6. Clinical uses of progesterone
7. Oxygen in therapy
8. Calcium channel blockers

III. Reasoning Out:

(4X5=20)

1. Phenytoin & drug induced arrhythmia
2. Metformin & fatty liver
3. Initial intensive treatment in Tuberculosis
4. Albendazole + Ivermectin combination

IV. Very Short Answers:

(10X2=20)

1. Ticlopidine
2. Fentanyl patch
3. Zolpidem
4. Drug induced hyperkalemia
5. Nevirapine
6. Azelastine nasal spray
7. Stool softeners
8. Clindamycin gel
9. Povidone iodine 10% solution
10. Atosiban

(LF 127)

OCTOBER 2014

Sub. Code:2024

**M.D. DEGREE EXAMINATION
BRANCH VI - PHARMACOLOGY**

**PAPER III - CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES**

Q.P.Code: 202024

Time: Three Hours

Maximum: 100 marks

I. Essay:

(2 x 10 = 20)

1. Discuss the DOTS regime for Tuberculosis management.
2. Discuss the pharmacology of Beta lactam Antibiotics.

II. Short Questions:

(8 x 5 = 40)

1. Antibiotic prophylaxis.
2. Proteosome inhibitors
3. Tacrolimus.
4. Succimer.
5. Linezolid
6. Second generation Fluoroquinolones.
7. Uses of anticoagulants.
8. Colony Stimulating Factors.

III. Reasoning Out:

(4 x 5 = 20)

1. Methylphenidate in Attention deficit hyperactivity.
2. Bromhexine in cough.
3. Balanced Anesthesia.
4. Thiazide diuretics in diabetes insipidus.

IV. Very Short Answers:

(10 x 2 = 20)

1. Estrogen receptor antagonists.
2. Minocycline.
3. Artificial tears.
4. Clinical uses of metformin.
5. Inhaled Insulins.
6. Mitotane.
7. Atosiban.
8. BDNF.
9. Buspirone.
10. Nefopam.

[LG 127]

APRIL 2015

Sub. Code: 2024

M.D. DEGREE EXAMINATION

BRANCH VI – PHARMACOLOGY

**PAPER III – CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES**

Q.P. Code : 202024

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Essay:

(2 x 10 = 20)

1. What are the different types of shock and how are they managed?
2. Current concepts in the management of congestive cardiac failure.

II. Short Questions:

(8 x 5 = 40)

1. Antioxidants.
2. Racial differences in response to drugs.
3. Zero order kinetics.
4. Drugs modifying steroid biosynthesis.
5. Imatinib mesylate.
6. Thiazide diuretics in diabetes insipidus.
7. Uses of angiotensin receptor antagonists.
8. Pharmacoeconomics.

III. Reasoning Out:

(4 x 5 = 20)

1. Vitamin K and Vitamin D administration in phenytoin toxicity.
2. Ciprofloxacin increases plasma concentration of Ropinirole.
3. Oxybutynin in overactive bladder.
4. Amphetamine in narcolepsy.

IV. Very Short Answers:

(10 x 2 = 20)

1. Clinical uses of interferons.
2. Tolterodine.
3. Benoxinate.
4. Estrogen receptor modulators.
5. Protamine sulphate.
6. Acarbose.
7. Sibutramine.
8. Designer drugs.
9. Uses of Lithium.
10. Mention two non-psychiatric uses of Amitryptiline.

M.D. DEGREE EXAMINATION
BRANCH VI – PHARMACOLOGY
PAPER III – CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES

Q.P. Code : 202024

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

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

1. Discuss the pathogenesis and pharmacology of drugs used in inflammatory bowel disorders.
2. Describe the current trends in management of type 2 diabetes mellitus.

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

1. Combination chemotherapy in treatment of HIV.
2. Direct thrombin inhibitors.
3. Platinum compounds.
4. Drugs acting on microtubules.
5. Fosfomycin.
6. Management of hypercalcemia.
7. Novel thyroid hormone analogs.
8. Saline laxatives.

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

1. G6PD status and malaria therapy.
2. Emergence of resistance in tuberculosis.
3. Exemestane as a therapeutic agent.
4. Anticoagulants and lab monitoring.

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

1. Burimamide.
2. Drugs used in pulmonary hypertension.
3. Modulators of GnRH.
4. Glucagon as a therapeutic agent.
5. Ketolides.
6. Human insulins.
7. Adverse effects of cisapride.
8. Sequential blockade.
9. Drugs used in trypanosomiasis.
10. Gene gun.

(LI 127)

APRIL 2016

Sub. Code:2024

**M.D. DEGREE EXAMINATION
BRANCH VI – PHARMACOLOGY**

**PAPER III – CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES**

Q.P.Code: 202024

Time: Three Hours

Maximum: 100 Marks

I. Essay: (2 x 10 = 20)

1. Discuss the current trends in combination chemotherapy of HIV.
2. Describe the pharmacology of glucocorticoids and its clinical applications.

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

1. Drugs acting on motilin receptors.
2. Direct thrombin inhibitors.
3. Cerebral malaria.
4. Echinocandins.
5. Antimicrobial agents targeting 50S ribosomal subunit.
6. Starch blockers.
7. Eflornithine.
8. Oral phosphate binders.

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

1. Drugs causing Time dependant killing vs. concentration dependant killing.
2. Role of tamoxifen.
3. Reasons for MDR TB emergence.
4. Prophylaxis with Antimicrobial agents.

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

1. Heparinoids.
2. ADP antagonists.
3. Spectinomycin.
4. Drugs used in Polycystic ovarian syndrome.
5. Management of methotrexate toxicity.
6. Centchroman.
7. Anabolic steroids.
8. Rifabutin.
9. Tocolytics.
10. Glycylclines.

(LJ 127)

OCTOBER 2016

Sub. Code:2024

**M.D. DEGREE EXAMINATION
BRANCH VI – PHARMACOLOGY**

**PAPER III – CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES**

Q.P.Code: 202024

Time: Three Hours

Maximum: 100 Marks

I. Essay: (2 x 10 = 20)

1. Describe Artemisinin based combination therapy in management of malaria.
2. Discuss the recent advances in the management of type 2 diabetes mellitus.

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

1. Thyroid peroxidase inhibitors.
2. Anti androgens.
3. Anthracyclines.
4. Drugs acting on topoisomerase.
5. Carbapenems.
6. Interleukin 2.
7. Oral phosphate binders.
8. Management of neurocysticercosis.

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

1. Prophylaxis in HIV.
2. Microbial Resistance to aminoglycosides.
3. Antisecretory agents in diarrhoea.
4. Role of allopurinol in gout.

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

1. Rapamycin.
2. BCR- ABL Kinase inhibitors.
3. Drugs for surgical site infection.
4. Saline laxatives.
5. Insulin like growth factor 1.
6. Antiinflammatory action of glucocorticoids.
7. Liothyronine.
8. Management of tuberculosis in HIV.
9. Fungal cell wall synthesis inhibitors.
10. Contraindications to oral contraceptives.

(LK 127)

MAY 2017

Sub. Code:2024

**M.D. DEGREE EXAMINATION
BRANCH VI – PHARMACOLOGY**

**PAPER III – CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES**

Q.P.Code: 202024

Time: Three Hours

Maximum: 100 Marks

I. Essay: (2 x 10 = 20)

1. Discuss how genetic factors influence drug effects with suitable examples?
2. Discuss the pharmacotherapy of Antirheumatoid drugs.

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

1. Treatment of Hypertensive emergencies.
2. Danazol.
3. Mechanism of action of sildenafil.
4. Drug delivery in dermatological diseases.
5. Insulin resistance.
6. Neuroleptic Malignant Syndrome.
7. Mirtazapine.
8. Uses of Angiotensin receptor antagonists.

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

1. Probenecid in gout.
2. Intravenous KCL in Diabetic Ketoacidosis.
3. Centchroman as oral contraceptive.
4. Vitamin D therapy in hypoparathyroidism.

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

1. Anakinra.
2. Transdermal androgen.
3. Selective estrogen receptor down regulators (SERDs).
4. Alendronate.
5. Merits of sevoflurane.
6. Zaleplon.
7. Mention four drugs used for status epilepticus.
8. Quetiapine.
9. Cause of cough with ACE Inhibitors.
10. Milrinone.

M.D. DEGREE EXAMINATION

BRANCH VI – PHARMACOLOGY

**PAPER III – CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES**

Q.P.Code: 202024

Time: Three Hours

Maximum: 100 Marks

I. Essay:

(2 x 15 = 30)

1. Write in detail about biological response modifiers.
2. Discuss about the current advances in the pharmacotherapy of bone mineral metabolism.

II. Short notes:

(10 x 5 = 50)

1. Epothilones.
2. Mycobacterium avium complex infection.
3. Antimethicillin resistant staphylococcus aureus infection.
4. Glucagon like peptide-1 analogue.
5. Differentiate between vinca alkaloids and taxanes.
6. Treatment of hepatitis B Infection.
7. Activators of lipoprotein lipase drugs.
8. Selective progestin receptor modulator.
9. Amikacin.
10. Thioamide.

III. Reasoning Out:

(4 x 5 = 20)

1. Non endocrine benefit of oral contraceptives.
2. Extremely drug resistant tuberculosis.
3. Compare post antibiotic effect with time, concentration dependent killing of antibiotics.
4. Drug induced renal toxicity.

M.D. DEGREE EXAMINATION

BRANCH VI – PHARMACOLOGY

**PAPER III – CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES**

Q.P. Code: 202024

Time: Three Hours

Maximum: 100 Marks

I. Essay:

(2 x 15 = 30)

1. Classify drugs used in the treatment of bronchial asthma.
What is the mechanism of action of corticosteroids in bronchial asthma?
What are the drugs that are delivered by inhalational routes?
What are the devices used for delivering inhalational drugs?
Recent advances in the treatment of bronchial asthma.
2. Classify oral anti diabetic drugs.
Discuss the mechanism of action, adverse effects and uses of Metformin.
Recent advances in the treatment of diabetes mellitus.

II. Short notes:

(10 x 5 = 50)

1. Student t test.
2. Exogenous antioxidants.
3. Pharmacokinetic considerations in patients with renal failure.
4. DOTS regimen.
5. Principles of chronobiology in drug therapy.
6. Antibiotic prophylaxis in surgery.
7. Drugs for hepatitis B virus infections.
8. Topical antifungal agents.
9. Recent anti emetic drugs.
10. Effects of muscarinic receptor agonists and antagonists on EYE.

III. Reasoning Out:

(4 x 5 = 20)

1. Lactulose in hepatic encephalopathy.
2. Ritodrine in premature labour.
3. Enfuvirtide in Anti HIV treatment.
4. Rivaroxaban in the prophylaxis of deep vein thrombosis.

**M.D. DEGREE EXAMINATION
BRANCH VI – PHARMACOLOGY**

**PAPER III – CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES**

Q.P. Code : 202024

Time: Three Hours

Maximum: 100 Marks

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

1. a) Discuss the advantages and disadvantages of HRT in postmenopausal women.
b) Write the advantages and disadvantages of OC pills.
2. a) Discuss the recent advances in the pharmacotherapy of Depression.
b) Write briefly about serotonin syndrome.

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

1. Carbonic anhydrase inhibitors.
2. Drugs used to alleviate abnormal micturition.
3. Spindle poisons.
4. Performance enhancing drugs in sports.
5. Incretin based therapy.
6. Mycophenolate mofetil.
7. Informed consent.
8. Enzymes in therapy.
9. Immunostimulants.
10. Suicidal inhibitors.

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

1. Pleiotropic role of melatonin.
2. Rationale for using folate antagonists in therapy.
3. MAB in cancer therapy.
4. Role of Zinc sulphate in Childhood diarrhea.

M.D. DEGREE EXAMINATION

BRANCH VI – PHARMACOLOGY

**PAPER III – CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES**

Q.P. Code : 202024

Time: Three Hours

Maximum: 100 Marks

I. Essay: (2 x 15 = 30)

1. a) Enumerate the drugs used for Insomnia.
b) Mention the pharmacological rationale of each group of drugs.
2. Discuss the variations in clinical pharmacokinetic parameters as seen in pediatric and geriatric age groups.

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

1. Hormonal agents in cancer.
2. Interferons.
3. Nonsurgical prophylaxis.
4. Amiodarone.
5. Phosphodiesterase inhibitors.
6. Diuretic resistance.
7. NMDA receptor antagonists.
8. Toxicological studies.
9. Post exposure prophylaxis of HIV.
10. Thyroid storm.

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

1. Hepatic disease and biotransformation of drugs.
2. Nitrofurantoin as urinary antiseptic.
3. Placebo in clinical trials.
4. Rationale use of vasodilators.

[LQ 127]

**AUGUST 2020
(MAY 2020 SESSION)**

Sub. Code: 2024

M.D. DEGREE EXAMINATION

BRANCH VI – PHARMACOLOGY

**PAPER III – CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES**

Q.P. Code: 202024

Time: Three Hours

Maximum: 100 Marks

I. Essay: (2 x 15 = 30)

1. Describe the clinical pharmacology of immunosuppressants and tolerogens
- 2.a. Describe the principles and guidelines for chemotherapy of malaria
b. Write briefly on the chemoprophylaxis regimens for malaria

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

1. Hepatitis B virus drug targets and treatment approach
2. FOLFOX regimen
3. Epidermal growth factor receptor inhibitors
4. Opioid induced constipation
5. Fenoldopam
6. Management of polycystic ovarian syndrome
7. Analogs of parathormone
8. Preventive vaccines recommended for international travelers
9. Lipoprotein lipase activators
10. Camptothecin analogs

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

1. Role of cannabinoids as therapeutic agents
2. Ultralong acting β agonists in asthma
3. Glutamate receptor as a drug target
4. Role of Crofelemer in therapeutics

[MD 0721]

**JULY 2021
(MAY 2021 SESSION)**

Sub. Code: 2024

M.D. DEGREE EXAMINATION

BRANCH VI – PHARMACOLOGY

**PAPER III – CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES**

Q.P. Code: 202024

Time: Three Hours

Maximum: 100 Marks

I. Essay:

(2 x 15 = 30)

1. a) Explain the pharmacological basis of drugs used for acid peptic disease.
b) Write briefly on prucalopride.
2. a) Discuss the therapeutic uses of sympathomimetics.
b) Explain the recent advances in the therapy of chronic orthostatic hypotension.

II. Short notes:

(10 x 5 = 50)

1. Adenosine.
2. Nedocromil.
3. Baclofen.
4. Rimonabant.
5. Thyroid preparations.
6. Extended spectrum penicillins.
7. Antimicrobial prophylaxis.
8. Organophosphorus pesticides.
9. Pancreatic enzymes.
10. Drug interactions involving disulfiram.

III. Reasoning Out:

(4 x 5 = 20)

1. Therapeutic drug monitoring of theophylline.
2. Reye's syndrome.
3. Compensation for participants in clinical trials.
4. Aminoglycosides causing neuromuscular blockade.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD 1121]

**NOVEMBER 2021
(OCTOBER 2021 SESSION)**

Sub. Code: 2024

M.D. DEGREE EXAMINATION

BRANCH VI – PHARMACOLOGY

**PAPER III – CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES**

Q.P. Code: 202024

Time: Three Hours

Maximum: 100 Marks

I. Essay:

(2 x 15 = 30)

- 1.a) What are the mechanisms by which drugs used in Cardiac Arrhythmias act?
b) Discuss in detail the pharmacotherapy of different types of arrhythmia.
2. a) Write in detail about the various drugs used to treat vomiting?
b) What are the various combinations of anti-emetic drugs used? Discuss their advantages.

II. Short notes:

(10 x 5 = 50)

1. First human dose
2. Alcohol Dependence and its management.
3. Institutional Ethics Committee and its roles
4. Nutraceuticals
5. Parenteral Iron Therapy
6. Precautions during Glucocorticoid therapy
7. Tenapanor
8. Types of antimicrobial therapy
9. Drugs affecting skin pigmentation
10. Selective Estrogen Receptor Downregulators

III. Reasoning Out:

(4 x 5 = 20)

1. Publication Ethics
2. Sudden Abrupt Withdrawal of drugs may be harmful
3. Post treatment suppressive therapy
4. Sensitivity testing for Anti Sera

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 0522]

MAY 2022

Sub. Code: 2024

M.D. DEGREE EXAMINATION

BRANCH VI – PHARMACOLOGY

**PAPER III – CLINICAL PHARMACOLOGY & PHARMACOTHERAPEUTICS
INCLUDING RECENT ADVANCES**

Q.P. Code: 202024

Time: Three Hours

Maximum: 100 Marks

I. Essay:

(2 x 15 = 30)

1. a) What are the pharmacological aspects to be considered during drug therapies in children?
b) Write briefly on “paediatric drug dosage”?
2. Explain the therapeutic applications of drugs stimulating gastrointestinal motility
Write briefly on (a) Lubiprostone (b) Alvimopan.

II. Short notes:

(10 x 5 = 50)

1. Adrenergic neuron blockers.
2. Motion sickness.
3. Buspirone.
4. Uses of botulinum toxin.
5. Ecstasy.
6. Vasopressin antagonists.
7. Randomization.
8. Drugs used for osteoporosis.
9. Fusion inhibitors.
10. Monoclonal antibodies.

III. Reasoning Out:

(4 x 5 = 20)

1. Role of P-glycoprotein in drug interactions.
2. Phase I and phase II blocks induced by neuromuscular blockers.
3. Double blinding procedure used in clinical trials.
4. PAF antagonist used as a cognition enhancer.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 1022]

OCTOBER 2022

Sub. Code: 2024

M.D. DEGREE EXAMINATION

BRANCH VI – PHARMACOLOGY

**PAPER III – CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING RECENT ADVANCES**

Q.P. Code: 202024

Time: Three Hours

Maximum: 100 Marks

I. Essay:

(2 x 15 = 30)

1. a. Outline the principles of chemotherapy of HIV infection.
b. Describe the first line WHO regimens and guidelines for adults with HIV.
2. a. Describe the physiology of Renin Angiotensin System.
b. Explain the clinical pharmacology of drugs acting on RAS.

II. Short notes:

(10 x 5 = 50)

1. FOLFIRINOX regimen.
2. Combination therapy of visceral leishmaniasis.
3. Management of pulmonary hypertension.
4. Pharmacotherapy of Hepatitis C virus infection.
5. Clinical pharmacology of ergot alkaloids.
6. Reversal of non depolarizing neuromuscular blockade.
7. Agents stimulating thrombopoiesis.
8. WHO analgesic ladder.
9. Chemoprophylaxis of malaria.
10. Pharmacotherapy of Irritable bowel syndrome.

III. Reasoning Out:

(4 x 5 = 20)

1. Dopamine agonists in Diabetes mellitus.
2. Drugs and nephrotoxicity.
3. Halogens as antiseptics.
4. Salicylates and acid – base balance.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 0723]

JULY 2023

Sub. Code: 2024

(MAY 2023 EXAM SESSION)

M.D. DEGREE EXAMINATION

BRANCH VI – PHARMACOLOGY

**PAPER III – CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING RECENT ADVANCES**

Q.P. Code: 202024

Time: Three Hours

Maximum: 100 Marks

I. Essay: (2 x 15 = 30)

1. Mr. X, developed convulsions that lasted for 25 minutes brought to the Emergency Department.
 - a) Write in detail on the management of Status Epilepticus.
 - b) GABA receptor as an antiepileptic drug target with relevant diagram.
 - c) Add a note on alcohol withdrawal seizure.
2. Targeted drug delivery system in cancer chemotherapy, with examples and advantages.

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

1. Formulations of Amphotericin – B to minimize the adverse effects.
2. Statin combination therapy and its indication with efficacy rates.
3. Criteria for selection of P-Drug with relevant examples.
4. Lincosamide antibiotics mechanism of action, therapeutic use and adverse effects.
5. Drugs used in Acute and Chronic Prophylaxis of Angina.
6. Boosted PI with examples and Rationale.
7. Drug used in treatment of smoking cessation.
8. Topical agents used in therapy of Psoriasis.
9. Measures and procedures to derive Antibiotic Policy for your institution. Add a note on AWaRe list of WHO.
10. Vaccine vigilance and time line of reporting.

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

1. Side effects of Long term use of Atypical antipsychotics.
2. CHANCE Trials.
3. Analyse the vehicles used in topical formulations.
4. Me-too drugs versus innovations in Cardiovascular Pharmacology.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 1223]

**DECEMBER 2023
(OCTOBER 2023 EXAM SESSION)**

Sub. Code: 2024

M.D. DEGREE EXAMINATION

BRANCH VI – PHARMACOLOGY

**PAPER III – CLINICAL PHARMACOLOGY AND
PHARMACOTHERAPEUTICS INCLUDING RECENT ADVANCES**

Q.P. Code: 202024

Time: Three Hours

Maximum: 100 Marks

I. Essay: (2 x 15 = 30)

1. Write briefly about different types of Calcium Channels. Discuss the Pharmacology of Calcium Channel Blockers.
2. Discuss in detail about Vasoactive Peptides, their Receptors and Drugs acting through them.

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

1. Mineralocorticoid Antagonists in Heart Failure.
2. P2Y₁₂ Receptor Antagonists.
3. Fenoldopam.
4. Therapeutic uses of Aspirin.
5. Drug treatment for Chemotherapy induced vomiting.
6. Milnacipran.
7. Lanreotide.
8. Glycopeptide Antibodies.
9. Drugs effective against Hepatitis C Virus infection.
10. Anticytokine Antibodies.

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

1. Use of Corticosteroids in Tuberculosis.
2. Plasma Expanders – Therapeutic applications.
3. Role of Brain derived Neurotrophic Factor in Depression.
4. Status of Thiazide class Diuretics in Hypertension.
