

SECOND YEAR B.D.S. DEGREE EXAM
(Common to Second Year Paper III - Modified Regulation III Candidates)

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: (2 x 10 = 20)

1. Classify opioid analgesics. Write about the mechanism of action, uses and adverse effects of morphine.
2. Classify penicillins. Write the anti bacterial spectrum mechanism, adverse effects and uses of Amoxicillin.

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

1. Iatrogenic diseases.
2. Atropine substitutes.
3. Local Anesthesia.
4. Diazepam.
5. Streptokinase.
6. Uses of H₁ blockers.
7. Potassium sparing diuretics.
8. Newer Insulins.
9. Ketoconazole.
10. Rifampicin.

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Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: (2 x 10 = 20)

1. Enumerate the various routes of drug administration with suitable examples. Mention the advantages and disadvantages of oral route.
2. Classify drugs used in Peptic Ulcer. Write the mechanism of action, pharmacological actions, therapeutic uses and adverse effects of Proton Pump Inhibitors.

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

1. Penicillin G.
2. Calcium channel blockers.
3. Antiplatelet drugs.
4. Sulfonyl Ureas.
5. Aminoglycoside antibiotics.
6. Antiseptics.
7. H₂ Antihistamines.
8. Paracetamol.
9. Diazepam.
10. Therapeutic uses of anticholinergic drugs.

SECOND YEAR B.D.S. DEGREE EXAM
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Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2 x 10 = 20)

1. Classify drugs used in Bronchial Asthma. Write in detail about the role of Glucocorticoids in Bronchial Asthma.
2. Classify drugs used in Chemotherapy of Malignancy. Explain in detail about Methotrexate.

II. Write Notes on:

(10 x 5 = 50)

1. Intravenous route of drug administration.
2. Lignocaine.
3. Skeletal muscle relaxants.
4. Antiemetics.
5. Nitroglycerine.
6. Mefenamic Acid.
7. Tetracyclines.
8. Local hemostatics.
9. Topical Antifungal drugs.
10. Angiotensin converting enzyme inhibitors.

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Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Enumerate various adverse drug reactions. Write in detail about any three adverse reactions.
2. Enumerate anti – amoebic drugs. Write the mechanism, toxicity and uses of Metronidazole.

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

1. Special drug delivery systems.
2. Lignocaine.
3. Diazepam.
4. Disulfiram.
5. Glyceryl trinitrate.
6. Mechanism of action and uses of proton pump inhibitors.
7. Furosemide.
8. Uses and adverse effects of hydrocortisone.
9. Ceftriaxone.
10. Methotrexate.

[LN 657]

AUGUST 2018

Sub. Code: 4207

SECOND YEAR B.D.S. DEGREE EXAM
(Common to Second Year Paper III - Modified Regulation III Candidates)

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Classify Beta lactam Antibiotics. Write the Mechanism of action, Uses and Adverse reaction of Semisynthetic Pencillin.
2. Classify Non Steroidal Anti inflammatory drugs (NSAIDS). Write in detail about the Uses and Adverse reaction of Paracetamol and its acute poisoning and treatment.

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

1. Synergism.
2. Ketamine.
3. Low molecular weight Heparin.
4. Frusemide.
5. Lignocaine.
6. Metformin.
7. Ondansetron.
8. Uses and Toxicities of morphine.
9. Chlorhexidine mouth wash.
10. Vitamin K.

[LO 657]

FEBRUARY 2019

Sub. Code: 4207

SECOND YEAR B.D.S. DEGREE EXAM
(Common to Second Year Paper III - Modified Regulation III Candidates)

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: (2 x 10 = 20)

1. Classify Beta Blockers. Write in detail about the Actions, Uses and Adverse reactions of Propranolol.
2. Write in details about the various Routes of Drug Administrations with Examples.

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

1. Cox II Inhibitors.
2. Amoxicillin.
3. Brief about the techniques used in Local anesthesia.
4. Captopril.
5. Aspirin.
6. Adverse drug reactions of Anticancer drugs.
7. Anti fungal agents.
8. Ciprofloxacin.
9. Fentanyl.
10. Nystatin.

[LP 657]

AUGUST 2019

Sub. Code: 4207

SECOND YEAR B.D.S. DEGREE EXAM
(Common to Second Year Paper III - Modified Regulation III Candidates)

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: (2 x 10 = 20)

1. Classify drugs used for Peptic Ulcer. Write in details about actions uses and adverse drug action of proton pump inhibitors.
2. Classify Sedative hypnotics. Write in detail about of the Mechanism of action, Uses and Adverse reaction of Benzodiazepines and its antidote.

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

1. Nitroglycerine.
2. Ibuprofen.
3. Amoxicillin and Clavulanic acid.
4. Phenytoin.
5. Calcium channel blockers.
6. Treatment of Anaphylactic Shock.
7. Naloxone.
8. Low dose Aspirin.
9. Iron preparations.
10. Anti oxidant Vitamins.

[LQ 657]

FEBRUARY 2020

Sub. Code: 4207

SECOND YEAR B.D.S. DEGREE EXAM
(Common to Second Year Paper III - Modified Regulation III Candidates)

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: (2 x 10 = 20)

1. Classify corticosteroids. Write in detail uses and adverse effects of Glucocorticoids.
2. Classify general anesthetics. Write in detail uses and adverse effects of Halothane.

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

1. Teratogenicity.
2. Adrenaline.
3. Vitamin- C.
4. Broad Spectrum Antibiotics.
5. Digoxin.
6. Tachyphylaxis.
7. Ranitidine.
8. Salbutamol.
9. Cefuroxime.
10. Antiseptics.

[LR 657]

DECEMBER 2020
(AUGUST 2020 SESSION)

Sub. Code: 4207

SECOND YEAR B.D.S. DEGREE EXAM
(Common to Second Year Paper III - Modified Regulation III Candidates)

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Classify Non Steroidal Anti-Inflammatory Drugs. Write in detail about Actions, Adverse effects and uses of Paracetamol. Add a note on treatment of Paracetamol Poisoning.
2. Classify General Anaesthetics. Write in detail, uses and adverse effects of Halothane.

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

1. Teratogenicity.
2. Adrenaline.
3. Phenytoin.
4. Broad Spectrum Antibiotics.
5. Digoxin.
6. Corticosteroids.
7. Ranitidine.
8. Aspirin.
9. Insulin.
10. Anti Fungal Agents.

[BDS 0921]

SEPTEMBER 2021
(FEBRUARY 2021 SESSION)

Sub. Code: 4207

SECOND YEAR B.D.S. DEGREE EXAM
(Common to Second Year Paper III - Modified Regulation III Candidates)

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Classify Antiepileptics. Write in detail about Mechanism of Action, Adverse Effects and uses of Phenytoin Sodium.
2. Classify Aminoglycosides. Mention the Common Properties, Mechanism of Action, Adverse Effects and uses of Aminoglycosides.

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

1. Morphine.
2. Uses of Adrenaline in Dentistry.
3. Immunosuppressant.
4. Atropine uses and Toxicities.
5. Methotrexate.
6. Preanaesthetic Medication.
7. Fluoroquinolones
8. Ranitidine.
9. Metformin.
10. Adverse effects of Lignocaine.

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

[BDS 1221]

**DECEMBER 2021
(AUGUST 2021 SESSION)**

Sub. Code: 4207

**SECOND YEAR B.D.S. DEGREE EXAM
(Common to Second Year Paper III - Modified Regulation III Candidates)**

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Classify Local Anaesthetics. Write in detail mechanism of action uses, adverse effects of Lignocaine.
2. Classify Corticosteroids. Write in detail uses and adverse effects of Glucocorticoids.

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

1. Tachyphylaxis.
2. Beta-Blockers.
3. Local Anaesthetics.
4. Ibuprofen.
5. Therapeutic uses of Corticosteroids.
6. Naloxone.
7. Antiseptics.
8. Cefuroxime.
9. Salbutamol.
10. Erythromycin.

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

[BDS 0522]

**MAY 2022
(FEBRUARY 2022 SESSION)**

Sub. Code: 4207

**B.D.S. DEGREE EXAM
(Common to Second Year Paper III Modified Regulation III Candidates)**

SECOND YEAR

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Enumerate the various routes of drug administration with suitable examples. Give the advantages and disadvantages of Intravenous route of administration.
2. (i) Classify drugs used in Diabetes mellitus. Write about the Mechanism of action, uses & adverse effects of Glimepiride.

(ii) Write a short note on types on insulin preparations.

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

1. Diclofenac.
2. Oral Rehydration salts (ORS).
3. Lignocaine with Adrenaline.
4. Propranolol.
5. List of emergency drugs used in dentistry.
6. Angiotensin receptor blockers.
7. Sodium Valproate.
8. Heparin.
9. General toxicity of Anticancer drugs.
10. Vitamin B12.

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

[BDS 1222]

**DECEMBER 2022
(AUGUST 2022 EXAM SESSION)**

Sub. Code: 4207

**B.D.S. DEGREE EXAM
(Common to Second Year Paper III Modified Regulation III Candidates)**

SECOND YEAR

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2 x 10 = 20)

1. Classify Anti-cholinergic drugs .Write in detail about the clinical uses and adverse effects of Atropine.
2. Classify Cephalosporins. Write the antibacterial spectrum, mechanism of action, adverse effects and uses of Ceftriaxone.

II. Write Notes on:

(10 x 5 = 50)

1. First pass metabolism.
2. Bupivacaine.
3. Hydrocortisone.
4. Carbamazepine.
5. Uses and adverse effects of Calcium channel blockers.
6. Proton pump inhibitors.
7. Aspirin.
8. Ascorbic acid.
9. Cetirizine.
10. Pentazocine.

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

[BDS 0323]

**MARCH 2023
(SEPTEMBER 2022 EXAM SESSION)**

Sub. Code: 4207

**B.D.S. DEGREE EXAMINATION
(Common to Second Year Paper III Modified Regulation III Candidates)**

SECOND YEAR

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Classify Non Steroidal Anti Inflammatory Drugs. Give the mechanism of action, uses, and adverse effects of Aspirin.
2. Classify Penicillins. Give the Mechanism of action, adverse effects and uses of Amoxicillin.

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

1. Drug Antagonism.
2. Adverse effects of Corticosteroids.
3. Chlorhexidine.
4. Azithromycin.
5. Omeprazole.
6. Treatment of Myocardial Infarction.
7. Ketamine.
8. Fibrinolytics.
9. Loop diuretics.
10. Vitamin K.

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

[BDS 0723]

JULY 2023

Sub. Code: 4207

**B.D.S. DEGREE EXAMINATION
(Common to Second Year Paper III Modified Regulation III Candidates)**

SECOND YEAR

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: (2 x 10 = 20)

1. Classify Sedative – Hypnotic drugs .Write the mechanism of action, uses and adverse effects of Diazepam.
2. Classify Macrolides. Write the antibacterial spectrum, mechanism of action, adverse effects and uses of Azithromycin.

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

1. Microsomal Enzyme Induction.
2. Succinylcholine.
3. Prednisolone.
4. Fosphenytoin.
5. Uses and adverse effects of ACE inhibitors.
6. Metoclopramide.
7. Selective cox-2 inhibitors.
8. Pyridoxine.
9. Loratadine.
10. Noradrenaline.

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

[BDS 0224]

FEBRUARY 2024

Sub. Code: 4207

B.D.S. DEGREE EXAMINATION

(Common to Second Year Paper III Modified Regulation III Candidates)

SECOND YEAR

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: Three Hours

Maximum: 70 Marks

Answer All Questions in the same order

Draw suitable diagrams wherever necessary

I. Elaborate on:

(2 x 10 = 20)

1. Classify the drugs used in the treatment of Peptic Ulcer. Write in detail the mechanism of action, uses and adverse effects of Proton Pump Inhibitors.
2. Classify Fluoroquinolones. Write the mechanism of action, uses and adverse effects of Ciprofloxacin.

II. Write Notes on:

(10 x 5 = 50)

1. Parathyroid hormone.
2. Uses and adverse effects of atropine.
3. Tramadol.
4. Phenytoin.
5. Tranexamic acid.
6. Tizanidine.
7. Thiopentone sodium.
8. Spironolactone.
9. Amlodipine.
10. Disulfiram.

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

[BDS 0824]

AUGUST 2024

Sub. Code: 4207

B.D.S. DEGREE EXAMINATION

SECOND YEAR

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: Three Hours

Maximum: 70 Marks

**Answer All Questions in the same order
Draw suitable diagrams wherever necessary**

I. Elaborate on:

(2 x 10 = 20)

1. Classify General Anesthetics. Write in detail the mechanism of action of General anesthesia. Enumerate the uses and adverse effects of Nitrous oxide. Add a note on second gas effect and diffusion hypoxia.
2. Classify Cephalosporins. Write the antibacterial spectrum, mechanism of action, adverse effects and uses of Third Generation Cephalosporins.

II. Write Notes on:

(10 x 5 = 50)

1. Plasma half life.
2. Teratogenicity.
3. Second generation antihistaminics.
4. Ketorolac.
5. Uses and adverse effects of Hydrocortisone.
6. Baclofen.
7. Antihypertensives for use during pregnancy.
8. Vitamin D.
9. Antifibrinolytics.
10. Ondansetron.

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

[BDS 1224]

DECEMBER 2024

Sub. Code: 4207

B.D.S. DEGREE EXAMINATION

SECOND YEAR

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: Three Hours

Maximum: 70 Marks

**Answer All Questions in the same order
Draw suitable diagrams wherever necessary**

I. Elaborate on:

(2 x 10 = 20)

1. Classify Anticoagulants. Write in detail the mechanism of action, uses and adverse effects of Heparin.
2. Classify Skeletal Muscle relaxants. Write the mechanism of action, adverse effects and uses of Succinylcholine.

II. Write Notes on:

(10 x 5 = 50)

1. Bioavailability.
2. Metformin.
3. Dopamine.
4. Bupivacaine.
5. Osmotic Diuretics.
6. Atorvastatin.
7. 5HT 3 antagonists.
8. Metronidazole.
9. Preexposure prophylaxis of HIV infection.
10. Flurbiprofen.

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

[BDS 0225]

FEBRUARY 2025

Sub. Code: 4207

B.D.S. DEGREE EXAMINATION

**New Modified Revised Regulation (August 2016 Examination Session onwards)
and New Modified Regulation {Candidates admitted from 2008-2009 onwards}**

SECOND YEAR

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: Three Hours

Maximum: 70 Marks

**Answer All Questions in the same order
Draw suitable diagrams wherever necessary**

I. Elaborate on:

(2 x 10 = 20)

1. Classify Anti-coagulants. Write in detail about the mechanism of action, uses and adverse effects of Warfarin Sodium.
2. Classify Antitubercular drugs. Write the antibacterial spectrum, mechanism of action, adverse effects and uses of Rifampicin.

II. Write Notes on:

(10 x 5 = 50)

1. Plasma protein binding.
2. Cisatracurium.
3. Methyl Prednisolone.
4. Levetiracetam.
5. Uses and adverse effects of Digoxin.
6. Domperidone.
7. Indomethacin.
8. Vitamin D.
9. Fexofenadine.
10. Tramadol.

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

[BDS 0625]

JUNE 2025

Sub. Code: 4207

B.D.S. DEGREE EXAMINATION

New Modified Revised Regulation (August 2016 Examination Session onwards)

SECOND YEAR

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: Three Hours

Maximum: 70 Marks

**Answer All Questions in the same order
Draw suitable diagrams wherever necessary**

I. Elaborate on:

(2 x 10 = 20)

1. Classify the drugs used in treatment of Hypertension. Write in detail the mechanism of action, uses and adverse effects of ACE.
2. Classify Anti Tubercular drugs. Write the mechanism of action, uses and adverse effects of First line anti tubercular drugs.

II. Write Notes on:

(10 x 5 = 50)

1. Thyroxine.
2. Uses and adverse effects of Propranolol.
3. Sources of Drug.
4. Routes of Drug administration.
5. Prodrug.
6. Bupivacaine.
7. Dicyclomine.
8. Ebastine.
9. Naproxen.
10. Codeine.

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

[BDS 0825]

AUGUST 2025

Sub. Code: 4207

B.D.S. DEGREE EXAMINATION

**New Modified Revised Regulation (August 2016 Examination Session onwards)
and New Modified Regulation {Candidates admitted from 2008-2009 onwards}**

SECOND YEAR

**PAPER II – GENERAL AND DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P Code: 544207

Time: Three Hours

Maximum: 70 Marks

**Answer All Questions in the same order
Draw suitable diagrams wherever necessary**

I. Elaborate on:

(2 x 10 = 20)

1. Classify Local anaesthetic agents. Write in detail the mechanism of action, uses and adverse effects of Lignocaine.
2. Classify Beta lactam antibiotics. Write in detail the mechanism of action, uses and adverse effects of Penicillin G.

II. Write Notes on:

(10 x 5 = 50)

1. Tachyphylaxis.
2. Acyclovir.
3. Ibuprofen.
4. Salbutamol.
5. Parenteral iron.
6. Thiazide diuretics.
7. Calcium channel blocker.
8. Selective Serotonin Reuptake Inhibitor (SSRI).
9. Ezetimibe.
10. Newer macrolides.
