

APRIL - 2001

[KD 657]

Sub. Code : 4136

SECOND B.D.S. DEGREE EXAMINATION.

(Modified Regulations)

Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS

Time : Three hours Maximum : 100 marks

Two and a half hours Sec. A & Sec. B : 70 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in same Answer book.

Answer Section C in the Answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. Classify opioids .

Discuss any 3 important pharmacological actions
of Morphine.

What are the adverse effects and uses of
morphine? (3 + 6 + 3 + 3)

2. Explain the pharmacological basis of the
following :

(a) Role of Lugol's iodine prior to thyroid surgery.
(5)

(b) Role of Benzodiazepines as a pre anesthetic
agent. (5)

(c) Salicylates should not be given to patients
with peptic ulcer. (5)

SECTION B — (8 × 5 = 40 marks)

3. Write short notes on :

(a) Sublingual route of drug administration

(b) Styptics

(c) Ciprofloxacin

(d) Nystatin

(e) Streptokinase

(f) Loop diuretics

(g) Metronidazole

(h) Iron therapy.

NOVEMBER - 2001

[KE 618]

Sub. Code : 4078

SECOND B.D.S. DEGREE EXAMINATION.

(Revised Regulations)

**Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS**

Time : Three hours

Maximum : 100 marks

Two and a half hours

Sec. A & Sec. B : 70 marks

for Sec. A and Sec. B

Section C : 30 marks

Answer Sections A and B in the same Answer Book.

Answer Section C in the Answer Sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. Classify drug useful in congestive cardiac failure. Explain the cardiac actions of digoxin. Enumerate the therapeutic uses and adverse effects of digoxin. Add a note on management of digoxin toxicity.

(4 + 3 + 3 + 3 + 2)

2. Explain the pharmacological basis for the following :

(a) Salbutamol in bronchial asthma. (5)

(b) Morphine is contraindicated in head injury. (5)

(c) Sulfomethoxazole and trimethoprim in urinary tract infection. (5)

SECTION B — (8 × 5 = 40 marks)

3. Write short notes on :

(a) Preanesthetic medication

(b) Infiltration anesthesia

(c) Heparin

(d) Obtundents

(e) Uses of H₁ antihistamines

(f) Adverse effects of Aminoglycoside antibiotics

(g) Sulfonylureas

(h) Erythromycin.

NOVEMBER - 2001

[KE 657]

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Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS

Time : Three hours

Maximum : 100 marks

Two and a half hours

Sec. A & Sec. B : 70 marks

for Sec. A and Sec. B

Section C : 30 marks

Answer Sections A and B in the same Answer Book.

Answer Section C in the Answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. Classify Sedative hypnotics. Explain the mechanism of action and adverse effects of diazepam. Enumerate the therapeutic uses of Diazepam.

(6 + 3 + 3 + 3)

2. Explain the pharmacological basis for the following

(a) Methadone in morphine dependence. (5)

(b) Streptomycin and penicillin in subacute bacterial endocarditis. (5)

(c) Estrogen and progesterone as oral contraceptives. (5)

SECTION B — (8 × 5 = 40 marks)

3. Write short notes on :

(a) Dissociative anaesthesia

(b) Mummyfying agents

(c) Prokinetic agents

(d) Succinylcholine

(e) Semisynthetic penicillins

(f) Metronidazole

(g) Iron preparations

(h) Therapeutic uses of Glucocorticoids.

SEPTEMBER - 2002

[KH 618]

Sub. Code : 4078

SECOND B.D.S. DEGREE EXAMINATION.

(Revised Regulations)

**Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS**

Time : Three hours
Two and a half hours
for Sec. A & Sec. B

Maximum : 100 marks
Sec. A & Sec. B : 70 marks
Section C : 30 marks

Answer Sections A and B in the **SAME** Answer Book.

Answer Section C in the Answer Sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. Classify anticoagulants. Explain the mechanism of action and adverse effects of Warfarin. Mention the clinical uses of anticoagulants. (5 + 3 + 3 + 4)
2. Explain the pharmacological basis for the use of
 - (a) Ampicillin with sulbactam. (5)
 - (b) Adrenaline with local anesthetics. (5)
 - (c) Trimethoprim with sulfa methoxazole. (5)

SECTION B — (8 × 5 = 40 marks)

3. Write short notes on :

- (a) Astringents
 - (b) Sodium valproate
 - (c) Uses of morphine
 - (d) Toxicity of cytotoxic drugs
 - (e) High ceiling diuretics
 - (f) Glyceryl trinitrate
 - (g) Ketorolac
 - (h) Bronchodilators.
-

SEPTEMBER - 2002

[KH 657]

Sub. Code : 4136

SECOND B.D.S. DEGREE EXAMINATION.

(Modified Regulations)

**Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS**

Time : Three hours

Maximum : 100 marks

Two and a half hours

Sec. A and Sec. B : 70 marks

for Sec. A and Sec. B

Section C : 30 marks

Answer Sections A and B in the SAME Answer Book.

Answer Section C in the Answer Sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. Classify non-steroidal antiinflammatory drugs.

Explain the mechanism of analgesic action of aspirin.

How does aspirin differ from morphine? (5 + 3 + 7)

2. Explain the pharmacological basis of :

(a) Adrenaline and lignocaine combination. (5)

(b) Primaquine therapy producing haemolytic anemia. (5)

(c) Sublingual administration of nitroglycerine. (5)

SECTION B

3. Write short notes on : (8 × 5 = 40)

(a) Nystatin

(b) Prednisone

(c) Cetirizine

(d) Dopamine

(e) Diazepam

(f) Ketamine

(g) Doxycycline

(h) Supra infection.

[KI 618]

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(Revised Regulations)

Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS

Time : Three hours Maximum : 100 marks

Two and a half hours Sec. A & Sec. B : 70 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in the **SAME** Answer Book.

Answer Section C in the Answer Sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. Classify glucocorticoids. Discuss the mechanism of action, uses, adverse effects and contra indications of Prednisolone. (2 + 4 + 3 + 3 + 3)

2. Explain the pharmacological basis for the use of

(a) Disulfiram in alcohol addiction. (5)

(b) Zidovudine in AIDS. (5)

(c) Ipratropium in Bronchial asthma. (5)

SECTION B — (8 × 5 = 40 marks)

3. Write short notes on :

(a) Albendazole

(b) Cyclosporin

(c) Cefotaxime

(d) Styptics

(e) Cefrimide

(f) Short course antitubercular therapy

(g) Management of nosocomial infection

(h) Drugs used in the treatment of candidal infection.

APRIL - 2003

[KI 657]

Sub. Code : 4136

SECOND B.D.S. DEGREE EXAMINATION.

(Modified Regulations)

Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS

Time : Three hours Maximum : 100 marks

Two and a half hours Sec. A & Sec. B : 70 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in the **SAME** Answer Book.

Answer Section C in the Answer Sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. Classify glucocorticoids.

What are the general principles of steroid therapy?

Explain four common adverse effects of prolonged glucocorticoid therapy. (3 + 6 + 6)

2. Explain the pharmacological basis of the following : (5 + 5 + 5)

- (a) Dopamine in hypovolaemic shock
- (b) Selective COX₂ inhibitors
- (c) Methicillin in staphylococcal infections.

SECTION B — (8 × 5 = 40 marks)

3. Write short notes on :

- (a) Treatment of anaphylactic reaction
- (b) Amikacin
- (c) Vinca alkaloids.
- (d) Antacids.
- (e) Suxamethonium.
- (f) Metoclopramide.
- (g) Iatrogenic diseases
- (h) Cross resistance.

OCTOBER - 2003

[KJ 618]

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SECTION B — (10 × 5 = 50 marks)

SECOND B.D.S. DEGREE EXAMINATION.

(Revised Regulations)

Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS

Time : Three hours Maximum : 100 marks

Two hours and forty minutes

for Sec. A and Sec. B Sec. A & Sec. B : 80 marks

Twenty minutes for Sec. C Section C : 20 marks

Answer Sections A and B in the **SAME** Answer Book.

Answer Section C in the Answer Sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. Classify antiepileptic agents. Discuss the mechanism of action, uses, adverse effects, contraindications and dental implications of phenytoin (Dilantin) sodium. (5 + 2 + 3 + 2 + 1 + 2)

2. Explain the pharmacological basis for the use of :

- (a) Naloxone in morphine poisoning. (5)
- (b) Methotrexate in carcinoma. (5)
- (c) Sulphonamide and trimethoprim combination. (5)

3. Short notes :

- (a) Amoxycillin.
- (b) Frusemide.
- (c) Astringents.
- (d) Nasal decongestants.
- (e) Antiemetics.
- (f) Tachyphylaxis.
- (g) Bupivacaine.
- (h) Heparin.
- (i) Griseofulvin.
- (j) Tinidazole.

[KJ 657]

Sub. Code : 4136

SECOND B.D.S. DEGREE EXAMINATION.

(Modified Regulations)

Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS

Time : Three hours Maximum : 100 marks

Two hours and forty minutes

for Sec. A and Sec. B Sec. A & Sec. B : 80 marks

Twenty minutes for Sec. C Section C : 20 marks

Answer Sections A and B in the **SAME** Answer Book.

Answer Section C in the Answer Sheet provided.

SECTION A — ($2 \times 15 = 30$ marks)

1. Classify anti-diabetic drugs. Discuss the actions, indications and adverse effects of insulin. List any three drugs that may unfavourably affect drug control of diabetes mellitus. (4 + 8 + 3)

2. Explain the pharmacological basis for the following : (5 + 5 + 5)

(a) Gastritis due to non-steroidal anti-inflammatory drugs (NSAIDs)

(b) Atropine in organophosphate poisoning

(c) Administering nitroglycerin by sub-lingual route.

SECTION B — ($10 \times 5 = 50$ marks)

3. Write short notes on :

(a) Treatment of acute bronchial asthma.

(b) Indications and contraindications for adrenaline.

(c) Rifampicin.

(d) Codeine.

(e) Streptokinase.

(f) Bulk laxatives.

(g) Photosensitivity.

(h) Microsomal enzyme induction.

(i) Fluconazole.

(j) Ascorbic acid.

AUGUST - 2004

[KL 618]

Sub. Code : 4078

SECOND B.D.S. DEGREE EXAMINATION.

(Revised Regulations)

**Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS**

Time : Three hours

Maximum : 100 marks

**Sec. A & B : Two hours and
forty minutes**

Sec. A & B : 80 marks

Sec. C : Twenty minutes

Sec. C : 20 marks

Answer Sections A and B in the SAME Answer book.

Answer Section C in the answer sheet provided.

SECTION A

1. Give one indication and explain the pharmacological basis for the following drug combination.

- (a) Hydralazine and thiazide diuretics (5)**
- (b) Sulfamethoxazole and trimethoprim (5)**
- (c) Gentamycin and penicillin G. (5)**

2. Enumerate the factors modifying drug actions. Explain the various types of drug antagonism with examples. (15)

SECTION B

- 3. Write short notes on : (10 × 5 = 50)**
- (a) Atropine substitutes**
 - (b) Ketamine**
 - (c) Heparin**
 - (d) Insulin preparations**
 - (e) Astringents**
 - (f) Cromolyn sodium**
 - (g) Ciprofloxacin**
 - (h) Idio syncrasy**
 - (i) Antiemetics**
 - (j) Lignocaine.**

AUGUST - 2004

[KL 657]

Sub. Code : 4136

SECOND B.D.S. DEGREE EXAMINATION.

(Modified Regulations)

**Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS**

Time : Three hours

Maximum : 100 marks

**Sec. A & B : Two hours and
forty minutes**

Sec. A & B : 80 marks

Sec. C : Twenty minutes

Sec. C : 20 marks

Answer Sections A and B in the SAME Answer Book.

Answer Section C in the Answer Sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. Classify analgesics.

Discuss the mechanism of action, uses and adverse effects of acetyl salicylic acid. Write a brief note on the prevention of gastritis due to aspirin like drugs.

(4 + 2 + 3 + 3 + 3)

2. Explain the pharmacological basis for the following :

(5 + 5 + 5)

(a) Angiotensin converting enzyme inhibitors in congestive cardiac failure.

(b) Low dose-estrogen containing oral contraceptives.

(c) Diazepam in status epilepticus.

SECTION B — (10 × 5 = 50 marks)

3. Write short notes on :

(a) Iatrogenic disease.

(b) Glibenclamide.

(c) Azithromycin.

(d) Local haemostatics.

(e) Cetirizine.

(f) General principles to be followed in the selection of an antimicrobial agent.

(g) Management of adverse effects due to lignocaine.

(h) Drug treatment of anaerobic infections.

(i) Methotrexate.

(j) Drug induced dental adverse effects.

FEBRUARY - 2005

[KM 618]

Sub. Code : 4078

SECOND B.D.S. DEGREE EXAMINATION.

(Revised Regulations)

**Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS**

Time : Three hours

Maximum : 100 marks

Sec. A & B : Two hours and
forty minutes

Sec. A & B : 80 marks

Section C : Twenty minutes

Section C : 20 marks

Answer Sections A and B in the SAME Answer Book.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. Explain the pharmacological basis for the following :

- (a) Clonidine in hypertension. (5)
- (b) Neostigmine in myasthenia gravis. (5)
- (c) Tolbutamide in diabetes mellitus. (5)

2. Classify opioid analgesics with examples. Enumerate the adverse effects and therapeutic uses of morphine. (15)

SECTION B — (10 × 5 = 50 marks)

3. Write short notes on :

- (a) Drug antagonism.
 - (b) Uses of propranolol.
 - (c) Povidone iodine.
 - (d) Liquid paraffin.
 - (e) Metronidazole.
 - (f) Iron preparations.
 - (g) Ketoconazole.
 - (h) Anti retrovirals.
 - (i) Styptics
 - (j) Frusemide.
-

FEBRUARY - 2005

[KM 657]

Sub. Code : 4136

SECOND B.D.S. DEGREE EXAMINATION.

(Modified Regulations)

**Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS**

Time : Three hours Maximum : 100 marks

Sec. A & B : Two hours and Sec. A & B : 80 marks
forty minutes

Section C : Twenty minutes Section C : 20 marks

Answer Sections A and B in the SAME Answer Book.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. Classify the routes of administration of drugs. List the advantages and disadvantages of intravenous route. Briefly discuss the factors affecting drug absorption following oral route. (4 + 6 + 5)

2. Explain the pharmacological basis for the following :

- (a) Atropine as a preanaesthetic medication
- (b) Addition of a vasoconstrictor to a local anaesthetic.
- (c) Oral rehydration salts in the management of diarrhoea. (5 + 5 + 5)

SECTION B — (10 × 5 = 50 marks)

3. Write short notes on :

- (a) Plasma expanders
- (b) Third generation cephalosporins
- (c) Tinidazole
- (d) Omeprazole
- (e) Alprazolam
- (f) Diclofenac sodium
- (g) Teratogenicity
- (h) Management of drug induced hypoglycemia
- (i) Povidone iodine
- (j) Immunostimulants

AUGUST - 2005

[KN 657]

Sub. Code : 4136

SECOND B.D.S. DEGREE EXAMINATION.

(Modified Regulations)

**Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS**

Time : Three hours

Maximum : 100 marks

**Sec. A & B : Two hours and
forty minutes**

Sec. A & B : 80 marks

Sec. C : Twenty minutes

Sec. C : 20 marks

Answer Sections A and B in the SAME answer book.

Answer Section C in the answer sheet provided.

Answer ALL questions.

SECTION A — (2 × 15 = 30 marks)

1. Define 'Adverse Drug Reaction'. Mention the various adverse drug reactions with examples. Explain the treatment of poisoning. (2 + 8 + 5)

2. Explain the pharmacological basis for the following :

- (a) Ethanol in Methanol poisoning.
- (b) Disodium chromoglycate in chronic bronchial asthma.
- (c) Amphotericin B with 5-fluorouracil in fungal infection. (5 + 5 + 5)

SECTION B — (10 × 5 = 50 marks)

3. Write short notes on :

- (a) Neuro transmitters.
- (b) Trimethaphan camfonate.
- (c) Treatment of Angina pectoris.
- (d) Prilocaine.
- (e) Non-Sedative Anti histamines.
- (f) Sulfonyl ureas.
- (g) Treatment of Status Epilepticus.
- (h) Acyclovir.
- (i) Bleaching Agents.
- (j) Obtundents.

FEBRUARY - 2006

[KO 657]

Sub. Code : 4138

SECOND B.D.S. DEGREE EXAMINATION.

(Modified Regulations)

**Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS**

Time : Three hours

Maximum : 100 marks

Sec. A & B : Two hours and
forty minutes

Sec. A & B : 80 marks

Sec. C : Twenty minutes

Sec. C : 20 marks

Answer Sections A and B in the SAME Answer Book.

Answer Section C in the answer sheet provided.

Answer ALL questions.

SECTION A — (2 × 15 = 30 marks)

1. Classify analgesics. (4)

Discuss in detail the actions of NSAIDS on various organs and systems explaining the mechanisms of actions. (8)

What are the advantages and disadvantages of using CoX₂ selective inhibitors? (3)

2. Explain the pharmacological basis for the use of following drugs :

(a) Nitrates as anti anginal drugs.

(b) Fixed dose combination of trimethoprim and sulfamethoxazole.

(c) Administration of clavulanic acid along with Amoxacillin. (3 × 5 = 15)

SECTION B — (10 × 5 = 50 marks)

3. Write short notes on :

(a) Ticlopidine.

(b) Valdecoxib.

(c) Proton pump inhibitors in peptic ulcer – advantages and disadvantages.

(d) Drugs used in anaerobic infections

(e) Therapeutic uses of Iodine.

(f) Drugs used in the management of aphthous ulcers.

(g) Cisplatin.

(h) Long acting local anesthetics.

(i) Depolarising neuro muscular blockers.

(j) Anxiolytics.

AUGUST - 2006

[KP 657]

Sub. Code : 4136

SECOND B.D.S. DEGREE EXAMINATION.

(Modified Regulations)

**Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS**

Time : Three hours

Maximum : 100 marks

**Descriptive : Two hours and
forty minutes**

Descriptive : 80 marks

Objective : Twenty minutes

Objective : 20 marks

Answer ALL questions.

Write essays on :

1. (a) Classify local anaesthetics. (8)

(b) Explain four techniques of local anaesthesia
with one indication for each. (12)

2. Classify beta blockers. Explain the
pharmacological actions, uses and adverse effects of
propranolol. (4 + 4 + 4 + 3)

3. Classify antibacterial antibiotics according to their
mechanism of action. Explain how the bacteria develop
resistance to antimicrobial agents. (8 + 7)

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

(a) Nitroglycerine

(b) Pharmacogenetics

(c) Mummifying agents

(d) Iron preparations

(e) Uses and adverse effects of diazepam

(f) Glibenclamide.

FEBRUARY - 2007

[KQ 657]

Sub. Code : 4136

SECOND B.D.S. DEGREE EXAMINATION.

(Modified Regulations)

Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS

Time : Three hours

Maximum : 100 marks

Descriptive : Two hours and
forty minutes

Descriptive : 80 marks

Objective : Twenty minutes

Objective : 20 marks

Answer ALL questions.

1. Classify antibiotics with suitable examples. What are macrolides? Explain the pharmacokinetics, Pharmacodynamics, Therapeutic uses, doses and adverse effects of erythromycin. (4 + 16)

2. What is an ideal general anesthetic agent? Give an example. Explain in detail about halothane. (5 + 10)

3. What is shock? What are different types of shocks? Explain the pharmacological basis of 10 different types of drugs used in individual types of shocks. (5 + 10)

4. Write short notes on :

(6 × 5 = 30)

- (a) Styptic agent
 - (b) Methotrexate
 - (c) Chlorhexidine
 - (d) Paracetamol
 - (e) Anti emetic agents
 - (f) Biological half life.
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AUGUST 2007

[KR 657]

Sub. Code : 4136

SECOND B.D.S. DEGREE EXAMINATION.

(Modified Regulations)

**Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS**

Time : Three hours Maximum : 100 marks

**Descriptive : Two hours and Descriptive: 80 marks
forty minutes**

Objective : Twenty minutes Objective : 20 marks

Answer ALL questions.

**1. (a) Classify drugs used in Gram Negative
Infection. (3)**

**(b) Discuss the mechanism of action, uses adverse
effects of Aminoglycoside antibiotics. (9)**

**(c) Enumerate the drugs which have action
against both Gram positive and Negative infections. (3)**

**2. Explain the pharmacological basis for the
following :**

**(a) Halothane as an ideal general anaesthetic
agent.**

**(b) Combination of salbutamol and theophylline
in bronchial asthma.**

**(c) Combination of amoxycillin and clavulanic
acid. (5 + 5 + 5)**

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

(a) Antacids

(b) Immunomodulators

(c) High ceiling diuretics

(d) Opioid Antagonists

(e) Low molecular weight heparin

(f) Fluconazole

(g) Folic acid

(h) Uses of alcohol

(i) Dentrifrise

(j) Chloramphenicol.

FEBRUARY 2008

[KS 657]

Sub. Code : 4136

SECOND B.D.S. DEGREE EXAMINATION.

(Modified Regulations – III)

**Paper III — GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS**

Q.P. Code : 544136

Time : Three hours Maximum : 100 marks

**Descriptive : Two hours and Descriptive : 80 marks
forty minutes**

Objective : Twenty minutes Objective : 20 marks

Answer ALL questions.

I. Essay :

**1. (a) Classify non steroidal anti inflammatory
agents with suitable examples. (4)**

**(b) Write in detail about pharmacokinetics,
dynamics, uses, adverse effects, dosage of paracetamol.
(8)**

**(c) Justify the combination of paracetamol with
ibuprofen. (3)**

**2. Explain the pharmacological basis for the
following :**

**(a) Tetracyclines not used in pregnancy and in
infants (5)**

(b) Limitations of oral anti diabetics (5)

**(c) Stopping of anti platelet agents before dental
procedures. (5)**

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

(1) Universal antidote

(2) Lignocaine

(3) Astringents

(4) Metronidazole

(5) Vaccines for dentists

(6) Iron

(7) Anti emetics

(8) Propranolol

(9) Enumerate therapeutic uses of penicillins

(10) Salbutamol.

August 2008

[KT 657]

Sub. Code: 4136

SECOND B.D.S DEGREE EXAMINATION

(Modified Regulations – III)

**Paper III– GENERAL DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P. Code: 544136

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

I. Essays:

1. Classify anticoagulants.

(2 X 20 = 40)

Write in detail about the pharmacological actions, adverse effects and
uses of Heparin.

(4)

(12)

What are the advantages of LMW Heparin?

(4)

2. Explain the pharmacological basis for the use of the following drugs:

a. Digoxin in congestive cardiac failure.

(7)

b. Radioactive iodine in Hyperthyroidism.

(7)

c. Dopamine in septic shock.

(6)

II. Write short notes on:

(10 X 6 = 60)

1. Ondansetron.

2. Thiopentone sodium.

3. Cyclophosphamide.

4. Glibenclamide.

5. Zidovudine.

6. Antioxidant Vitamins.

7. Drugs excreted in saliva.

8. Rifampicin.

9. Cyclosporine.

10. Inhaler drugs in bronchial asthma.

February 2009

[KU 657]

Sub. Code : 4136

SECOND B.D.S DEGREE EXAMINATION

(Modified Regulations – III)

**Paper III– GENERAL DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q. P. Code : 544136

Time : Three hours

Maximum: 100 Marks

Answer ALL questions.

I. Essays : (2 x 20 = 40)

1. Classify local anaesthetics and write in detail the mechanism of action, Pharmacokinetics, adverse effects and uses of Lignocaine.
2. What are broad spectrum antibiotics? Classify tetracyclines. Write on the mechanism of action and adverse effects of tetracycline.

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

1. Metronidazole.
2. Antihistamines.
3. Iatrogenic diseases.
4. Diazepam.
5. Metoclopramide.
6. Side effects of corticosteroids.
7. Zidovudine.
8. Salbutamol.
9. Insulins.
10. Omeprazole.

August 2009

[KV 657]

Sub. Code : 4136

SECOND B.D.S DEGREE EXAMINATION

(Modified Regulations – III)

**Paper III– GENERAL DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q. P. Code : 544136

Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions.

I. Essays : **(2 x 20 = 40)**

1. Classify antibiotics with suitable examples. **(10)**

What is a bactericidal agent and bacteriostatic agent? **(2+2)**

Explain resistance. **(6)**

2. Explain the pharmacological basis of the following:

a) Pre anesthetic medication. **(8)**

b) Management of shock. **(8)**

c) Adrenaline with lignocaine. **(4)**

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

1. Therapeutic index.

2. Organophosphorous compound poisoning treatment.

3. Oral anticoagulants.

4. Omeprazole.

5. Insulin.

6. Paracetamol.

7. Treatment of bronchial asthma.

8. Mouth washes.

9. Cetirizine.

10. Adverse effects of tetracyclines.

February 2010

[KW 657]

Sub. Code : 4136

SECOND B.D.S DEGREE EXAMINATION

(Modified Regulations – III)

**Paper III– GENERAL DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q. P. Code : 544136

Time : Three hours

Maximum: 100 Marks

Answer ALL questions.

I. Essays :

(2 x 20 = 40)

1. Classify analgesics. Explain the mechanism of action and adverse effects of ibuprofen. Mention its therapeutic uses in dentistry.
2. Explain the pharmacological basis of:
 - a) Amoxycillin – clavulanic acid combination.
 - b) Transdermal nitroglycerine.
 - c) Prophylactic antimicrobials in dental extraction.

II. Write Short notes on :

(10 x 6 = 60)

1. Metronidazole.
2. Ketoconazole.
3. Anti retrovirals.
4. Styptics.
5. Theophylline.
6. Human insulins.
7. Frusemide.
8. Ciprofloxacin
9. Halothane.
10. Methotrexate.

August 2010

[KX 657]

Sub. Code: 4136

SECOND B.D.S DEGREE EXAMINATION

(Modified Regulations – III)

**Paper III – GENERAL DENTAL PHARMACOLOGY AND
THERAPEUTICS**

Q.P. Code: 544136

Time: Three hours

Maximum: 100 Marks

Answer ALL Questions

I. Essays:

(2 x 20 = 40)

1. Classify opioid analgesics. Write in detail the Pharmacological actions of Morphine on various systems. What are the Therapeutic uses and adverse effects of morphine.
2. Explain the pharmacological basis for the use of following drugs:
 - a) Aspirin in coronary artery disease.
 - b) Folinic acid to counteract methotrexate toxicity.
 - c) Atropine as a preanaesthetic medication.
 - d) Phenytoin sodium as an anti-convulsant.

II. Write short notes on:

(10 x 6 = 60)

1. Fluconazole.
2. Midazolam.
3. Metoclopramide.
4. Teratogenicity.
5. Side effects of corticosteroids.
6. Captopril.
7. Parenteral Iron.
8. Antacids.
9. Zidovudine.
10. Xylocaine.

February 2011

[KY 657]

Sub. Code : 4136

SECOND B.D.S. DEGREE EXAMINATION.
(Modified Regulations – III)
Paper III - GENERAL DENTAL PHARMACOLOGY
AND THERAPEUTICS

Q. P. Code : 544136

Answer **ALL** questions.

I. Essays :

(2 x 20 = 40)

1. Classify Beta-Lactam Antibiotics. Explain the mechanism of action, therapeutic uses and adverse effects of BENZYL PENICILLIN
2. Explain the pharmacological basis of
 - (a) Atropine as Preanaesthetic medication.
 - (b) Lignocaine with Adrenaline.
 - (c) Plasma Expanders in Hypovolemic shock.
 - (d) Morphine in Acute left Ventricular failure.

II. Write short notes on :

(10 x 6 = 60)

1. Biotransformation.
2. Second generation Antihistaminics.
3. Benzodiazepines.
4. Furosemide.
5. Oral anticoagulants.
6. Protonpump inhibitors.
7. Pulp mummifying agents.
8. Methotrexate.
9. Diclofenac sodium.
10. Fluorides.

August 2011

[KZ 657]

Sub. Code : 4136

SECOND B.D.S. DEGREE EXAMINATION

GENERAL DENTAL PHARMACOLOGY AND THERAPEUTICS

Q. P. Code : 544136

Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions

I. Essay Questions:

(2 x 20 = 40)

1. Classify local anesthetics. Describe the mechanism of action, various routes of administration (with suitable illustrations) and uses of Lignocaine. Write how the action of Lignocaine can be prolonged. Add a note on the differences between Lignocaine and Cocaine.
2. Enumerate the drugs used in peptic ulcer. Write the mechanism of action with suitable diagram, uses, interactions and adverse effects of Proton pump inhibitors. Add a list of drugs used in dental practice which can induce peptic ulcer and the agents that protect gastric mucosa.

II. Write Short notes on :

(10 x 6 = 60)

Write the actions, uses and adverse effects of the following:

1. Co trimoxazole.
2. Atenolol.
3. Levocetirizine.
4. Furosemide.
5. Succinyl choline.
6. Domperidone.
7. Zidovudine.
8. Clopidogrel.
9. Ciprofloxacin.
10. Chloroquine.

February 2012

[LA 657]

Sub. Code: 4136

SECOND B.D.S. DEGREE EXAMINATION
PAPER III – GENERAL DENTAL PHARMACOLOGY AND
THERAPEUTICS

Q .P .Code: 544136

Time: Three hours

Maximum: 70 Marks

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

I. Elaborate on: **(2X10=20)**

1. a) What are glucocorticoids? Mention them.
b) Describe the pharmacological actions adverse effects, indications and contraindications of hydrocortisone
c) Explain why glucocorticoid therapy should not be stopped abruptly?
2. a) Classify General anaesthetic drugs.
b) Discuss the advantages and disadvantages of ETHER.
c) Write briefly on “Preanaesthetic medication”.

II. Write notes on: **(10×5=50)**

1. Skeletal muscle relaxants.
2. Ketrolac
3. Long acting local anaesthetics
4. Beta-adrenergic blocking drugs.
5. Antihistamines
6. Amoxycillin with Clavulanic acid.
7. Chelating Agents
8. Osmatic Purgatives
9. Cephalosporins
10. Mouth washes

[LB 657]

AUGUST 2012

Sub. Code: 4136

**SECOND YEAR B.D.S. DEGREE EXAM
PAPER III – GENERAL DENTAL PHARMACOLOGY
AND THERAPETUTICS**

Q .P .Code: 544136

Time: 180 Minutes

Maximum: 100 Marks

Answer ALL questions in the same order

I. Elaborate on:

**Pages Time Marks
(Max.)(Max.)(Max.)**

- | | | | |
|---|----|----|----|
| 1. Define adverse drug reaction. Mention the various adverse drug reactions with examples. Explain the treatment of poisoning. | 19 | 30 | 20 |
| 2. Classify NSAIDS. Discuss the mechanism of action, uses, and adverse effects of acetyl salicylic acid. Write brief note on the prevention of gastritis due to aspirin like drugs. | 19 | 30 | 20 |

II. Write Notes on:

- | | | | |
|--------------------------------------|---|----|---|
| 1. Biotransformation. | 3 | 10 | 5 |
| 2. Furosemide. | 3 | 10 | 5 |
| 3. Protonpump inhibitors. | 3 | 10 | 5 |
| 4. Methotrexate. | 3 | 10 | 5 |
| 5. Xylocaine. | 3 | 10 | 5 |
| 6. Fluconazole. | 3 | 10 | 5 |
| 7. Antiemetics. | 3 | 10 | 5 |
| 8. Ciprofloxacin. | 3 | 10 | 5 |
| 9. Salbutamol. | 3 | 10 | 5 |
| 10. Opioid antagonist. | 3 | 10 | 5 |
| 11. Biological half life. | 3 | 10 | 5 |
| 12. Treatment of status epilepticus. | 3 | 10 | 5 |

[LC 657]

FEBRUARY 2013

Sub. Code: 4136

**SECOND YEAR B.D.S. DEGREE EXAM
PAPER III – GENERAL DENTAL PHARMACOLOGY
AND THERAPETUTICS**

Q .P .Code: 544136

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2x10=20)

1. Enumerate beta lactam antibiotics. Discuss briefly the antibiotic spectrum, Mechanism of action, adverse effects and uses of Penicillin-G
2. Classify Local Anaesthetics. Explain the various local anaesthetic techniques with examples. Write briefly on **lignocaine**.

II. Write Notes on:

(10x5=50)

1. Plasma half-life of drugs
2. Acute paracetamol poisoning
3. Phenytoin
4. Centrally acting muscle relaxants
5. Dentifrices
6. Local Hemostatics
7. Nucleoside reverse transcriptase inhibitors
8. Proton pump inhibitors
9. Anabolic steroids
10. Thiazide diuretics

[LD 657]

AUGUST 2013

Sub. Code: 4136

**SECOND YEAR B.D.S. DEGREE EXAM
PAPER III – GENERAL DENTAL PHARMACOLOGY
AND THERAPETUTICS**

Q .P .Code: 544136

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2x10=20)

1. Classify NSAIDS. Write the mechanism of action, uses and adverse effects of Ibuprofen.
2. Discuss in detail about the various route of administration with suitable examples.

II. Write Notes on:

(10x5=50)

1. Dopamine
2. Omeprazole
3. List any 4 techniques used in local anaesthesia.
4. Cefuroxime
5. Antioxidant Vitamins
6. Ramipril
7. Ketamine
8. Furosemide
9. Codeine
10. Obtundents.

**SECOND YEAR B.D.S. DEGREE EXAM
PAPER III – GENERAL DENTAL PHARMACOLOGY
AND THERAPETUTICS**

Q.P Code: 544136

Time: 180 Minutes

Maximum: 70 marks

I. Elaborate on:

(2X10=20)

1. Enumerate the Antidiabetic drugs. Write the pharmacological actions, uses and adverse effects of Insulin.
2. Classify Local anesthetics, Write the mechanism of action, uses and adverse effects of Lignocaine.

II. Write Notes on:

(10X5=50)

1. Amoxycillin with clavulanic acid
2. Pre anesthetic medication
3. Thiazide diuretics
4. Mouth washes
5. Iatrogenic diseases
6. Metoclopramide
7. Oral anticoagulants
8. Metronidazole
9. Acute Paracetamol poisoning
10. List of emergency drugs used in dentistry
