

February 2011

[KY 705]

Sub. Code : 4172

**SECOND B.D.S. DEGREE EXAMINATION.**

**(Regulations for the candidates admitted from 2008–2009 onwards)**

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

*Q.P. Code : 544172*

**Time : Three hours**

**Maximum : 70 marks**

Answer **ALL** questions.

**I. Essays:**

**(2 x 15 = 30)**

1. Classify the drugs used for the treatment of Bronchial asthma. Discuss in detail about the mechanism of actions, adverse drug effects and interaction of Theophylline. Add a note of inhalational steroids.
2. Write the Pharmacological basis of
  - (a) Cholinesterase reactivators in Organophosphorus poisoning
  - (b) Metclopamide in the treatment of vomiting
  - (c) Lignacaine and adrenaline combination in dental practice.

**II. Write short notes on :**

**(6 x 5 = 30)**

1. Ketorolac
2. Second generation antihistamines
3. Sulfonyl ureas
4. Microsomal enzyme induction
5. Synthetic atropine substitutes
6. Pre anaesthetic medication.

**III. Short answers questions :**

**(5 x 2 = 10)**

1. Prophylaxis of Migraine
2. Therapeutic index
3. Four examples for dentrifices
4. Four examples for local haemostatics
5. Post antibiotic effect.

\*\*\*\*\*

August 2011

[KZ 705]

Sub. Code : 4172

**SECOND B.D.S. DEGREE EXAMINATION**

**GENERAL DENTAL PHARMACOLOGY AND THERAPEUTICS**

*Q. P. Code : 544172*

**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: 4172

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

*Q.P.Code: 544172*

**Time: Three hours**

**Maximum: 70 Marks**

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

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

1. Enumerate the drugs used in insomnia. Describe the mechanism of action, uses adverse effects and Interactions of Benzodiazepines. Add a note on drugs used in benzodiazepine poisoning.
2. Enumerate the drugs used in different types of shock. Write in detail the reasons for using them and how the various drugs are used in Anaphylactic and Cardiogenic shock.

**II. Write notes on:** (10×5=50)

1. Factors modifying drug action
2. Amlodipine
3. Phenytoin
4. Coagulants
5. Rifampicin
6. List of emergency drugs in dentistry
7. Antiseptics
8. Human insulins
9. Calcium preparations
10. Methotrexate

\*\*\*\*\*

[LB 657]

AUGUST 2012

Sub. Code: 4172

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

*Q.P.Code: 544172*

**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: 4172

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

*Q.P.Code: 544172*

**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: 4172

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

*Q.P.Code: 544172*

**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.

\*\*\*\*\*

[LE 657]

FEBRUARY 2014

Sub. Code:4172

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

*Q.P Code: 544172*

**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

\*\*\*\*\*

[LF 657]

AUGUST 2014

Sub. Code: 4172

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

*Q.P Code: 544172*

**Time: 180 Minutes**

**Maximum: 70 marks**

**I. Elaborate on:**

**(2X10=20)**

1. Classify general Anaesthetics. Discuss the various uses and adverse reactions of ketamine.
2. Classify non steroidal Anti inflammatory drugs. Explain the therapeutic uses and adverse reactions of Aspirin.

**II. Write Notes on:**

**(10X5=50)**

1. Drug tolerance
2. Naloxone
3. Nifedepine
4. Spironolactone
5. Cotrimoxazole
6. Lignocaine
7. Desferrioxamine
8. Salbutamol
9. Astringents
10. Metoclopramide

\*\*\*\*\*



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

*Q.P Code: 544172*

**Time: 180 Minutes**

**Maximum: 70 Marks**

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

1. Enumerate Aminoglycosides. Discuss their mechanism of action, adverse effects and uses. Elaborate the reasons for failure of antimicrobial therapy.
2. Enumerate Corticosteroids. Discuss the actions and uses of Glucocorticoids. Write briefly on the contraindications of steroids.

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

1. Teratogenicity.
2. Lidocaine.
3. Selective COX - 2 Inhibitors.
4. Heparin.
5. Prokinetic drugs.
6. Diazepam.
7. Drug therapy of migraine.
8. Metronidazole.
9. General toxicity of anticancer drugs.
10. Third generation Cephalosporins.

\*\*\*\*\*

[LH 657]

AUGUST 2015

Sub. Code: 4172

**SECOND YEAR B.D.S. DEGREE EXAMINATION**

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

*Q.P. Code: 544172*

**Time : Three Hours**

**Maximum : 70 marks**

**Answer All Questions**

**I. Elaborate on:**

**(2 x 10 = 20)**

1. Classify Local anesthetics. Write the various techniques by which L.A can be administered with therapeutic applications.
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. Therapeutic Index.
2. Cardio selective beta blockers.
3. Carbamazepine.
4. Pre – anesthetic medication.
5. Digoxin.
6. Ranitidine.
7. Dimercaprol.
8. Anabolic steroids.
9. Metronidazole.
10. Amoxycillin.

\*\*\*\*\*

[LI 657]

FEBRUARY 2016

Sub. Code: 4172

**SECOND YEAR B.D.S. DEGREE EXAMINATION**

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

*Q.P. Code : 544172*

**Time : Three Hours**

**Maximum : 70 Marks**

**Answer All Questions**

**I. Elaborate on:**

**(2 x 10 = 20)**

1. Classify Sedative - Hypnotics, Write the mechanism of action, uses and adverse effects of Diazepam. Add a note on Benzodiazepine antagonist.
2. Classify beta – lactam antibiotics. Write the mechanism of action, uses and adverse effects of Ceftriaxone.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Fentanyl.
2. Adverse effects of Glucocorticoids.
3. Styptics.
4. Metronidazole.
5. Proton Pump inhibitors.
6. Diclofenac sodium.
7. Cetrizine.
8. Microsomal enzyme induction.
9. Salbutamol.
10. Low molecular weight Heparin.

\*\*\*\*\*

**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 H<sub>1</sub> blockers.
7. Potassium sparing diuretics.
8. Newer Insulins.
9. Ketoconazole.
10. Rifampicin.

\*\*\*\*\*

**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. 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. H<sub>2</sub> Antihistamines.
8. Paracetamol.
9. Diazepam.
10. Therapeutic uses of anticholinergic drugs.

\*\*\*\*\*

**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 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.

\*\*\*\*\*

**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. 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.

\*\*\*\*\*

**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.

\*\*\*\*\*