

[KZ 0811]

AUGUST 2011

Sub. Code: 1502

**B.Sc., CARDIAC TECHNOLOGY**

**FIRST YEAR**

**PAPER II – PHARMACOLOGY RELATED TO CARDIAC TECHNOLOGY**

*Q.P. Code: 801502*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Classify Opioids.  
Discuss in detail the pharmacological action and uses of Morphine.
2. Enumerate the drugs for peptic ulcers.  
Explain in detail the mechanism of action, uses and adverse effects of proton pump inhibitors.
3. Classify antihypertensives drugs.  
Write the mechanism of action, adverse effects and uses of clonidine.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Prophylactic uses of antibiotics.
2. Potassium sparing Diuretics.
3. Transdermal therapeutic system.
4. Tetratogency.
5. Therapeutic uses of H1 antihistiminic drugs.
6. Amikacin.
7. Aminodarone.
8. Trimetazidine.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Define tachyphylaxis and give 2 examples.
2. Mention the vasopressin analogues and their uses.
3. Name the antisecretory agents and their indication.
4. Define drug resistance and mention the types of drug resistance.
5. Mention the Betalactamase inhibitors and their uses.
6. Justify the preference of Ranitidine over cimetidine.
7. Mention the topical NSAIDS.
8. Write the mechanism of paracetamol toxicity and mention the specific antidote.
9. Mention the contraindications of corticosteroids.
10. Name the surface anaesthetic agents.

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[LA 0212]

FEBRUARY 2012

Sub. Code: 1502

**B.Sc., CARDIAC TECHNOLOGY**

**FIRST YEAR**

**PAPER II – PHARMACOLOGY RELATED TO CARDIAC TECHNOLOGY**

*Q.P. Code: 801502*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. a) Classify Glucocorticoids.  
b) Mention the Pharmacological actions of Glucocorticoids.
2. Classify anti arrhythmics drugs.  
Discuss the mechanism of action & therapeutic uses of class III anti arrhythmic drugs.
3. Classify Hypolipidaemic drugs.  
Discuss the Mechanism of action and adverse effects of statins.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Fexofenadine.
2. Sodium Nitroprusside.
3. Naloxone.
4. Zopiclone.
5. Ketamine.
6. Drug Tolerance.
7. Adverse effects of Digoxin.
8. Pre anaesthetic Medication.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Mention the methods of prolongation of drug action.
2. Mention the merits of sublingual route of drug administration.
3. Mention the contraindication of aspirin.
4. Give four examples of iatrogenic disease.
5. Write the mechanism of action.
6. Mention the drugs involved in acute phototoxic reactions.
7. Mention the carbonic anhydrase inhibitors and their indications.
8. Mention the Nondiarrhoeal uses of Oral rehydration therapy.
9. Mention the phosphodiesterase III inhibitors and their indications.
10. Mention the II generation antihistaminic drugs.

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[LB 0212]

AUGUST 2012

Sub. Code: 1502

B.Sc. CARDIAC TECHNOLOGY

FIRST YEAR

PAPER – II – PHARMACOLOGY RELATED TO

CARDIAC TECHNOLOGY

*Q.P. Code : 801502*

**Time : Three hours**

**Maximum : 100 marks**

**(180 Mins) Answer ALL questions in the same order**

**I. Elaborate on:**

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

- |   |   |    |    |
|---|---|----|----|
| 1. Write about Beta blockers.   | 7 | 20 | 10 |
| 2. Explain in detail about Platelet inhibitors.                             | 7 | 20 | 10 |
| 3. Write assay on Mechanism of action, uses and adverse effects of Statins. | 7 | 20 | 10 |

**II. Write Notes on:**

- |  |   |    |   |
|--|---|----|---|
| 1. Write a short note on Protamine.                | 4 | 10 | 5 |
| 2. Explain briefly about Niacin.                   | 4 | 10 | 5 |
| 3. Write a short notes on Antacids.                | 4 | 10 | 5 |
| 4. Write briefly on Type 1 Antiarrhythmics.        | 4 | 10 | 5 |
| 5. Write a notes on directly acting vasodilators.  | 4 | 10 | 5 |
| 6. Give a short note on Transdermal nitrate patch. | 4 | 10 | 5 |
| 7. Write a notes on Heparin.                       | 4 | 10 | 5 |
| 8. Mechanism of action of Digoxin.                 | 4 | 10 | 5 |

**III. Short Answers on:**

- |   |   |   |   |
|---|---|---|---|
| 1. Adverse effects of Nitrates.                   | 2 | 4 | 3 |
| 2. Name the Calcium Channel Blockers.             | 2 | 4 | 3 |
| 3. Name the Type 3 Anti arrhythmic drugs.         | 2 | 4 | 3 |
| 4. Low molecular weight heparin.                  | 2 | 4 | 3 |
| 5. Drug classification of anti anginal drugs.     | 2 | 4 | 3 |
| 6. Therapeutic uses of Fibrinolytics.             | 2 | 4 | 3 |
| 7. Mechanism of Action of proton pump inhibitors. | 2 | 4 | 3 |
| 8. Write about warfarin.                          | 2 | 4 | 3 |
| 9. Mechanism of action of penicillins.            | 2 | 4 | 3 |
| 10. Drug classification of Diuretics.             | 2 | 4 | 3 |

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[LC 0212]

FEBRUARY 2013

Sub. Code: 1502

**B.Sc. CARDIAC TECHNOLOGY  
FIRST YEAR  
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CARDIAC TECHNOLOGY**

*Q.P. Code : 801502*

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions .**

**I. Elaborate on:** **(3x10 = 30)**

1. Write an essay on the mechanism of action, uses and adverse effects of Platelet Inhibitors.
2. Explain in detail about Nitrates
3. Write about Angiotensin Converting Enzyme Inhibitors

**II. Write Notes on:** **(8x5=40)**

1. Write briefly on type 1 anti-arrhythmic drugs
2. Give a short note on Transdermal nitrate patch.
3. Write short notes on spironolactone
4. Write briefly on Low Molecular Weight Heparins
5. Give a short note on Fenofibrates
6. Give a short note on Local Anesthetics
7. Give a short note on Digoxin.
8. Write short notes on warfarin

**III. Short Answers on:** **(10x3=30)**

1. Write short notes on Protamin
2. Mechanism of Action of Diazepam
3. Write about Niacin
4. Name the Type 4 Anti arrhythmic drugs
5. Write about urokinase
6. Drug classification of Anti Hyperlipidemic Drugs
7. Mechanism of action of Proton Pump Inhibitors
8. Name the Beta Blockers
9. Adverse effects of Diuretics
10. Write a short note on Spironolactone

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[LD 0212]

August 2013

Sub.code: 1502

**B.Sc. CARDIAC TECHNOLOGY  
FIRST YEAR  
PAPER II – PHARMACOLOGY RELATED TO CARDIAC TECHNOLOGY**

*Q.P. Code : 801502*

**Time: Three hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Calcium channel blockers
2. ACE inhibitors for hypertensive and renal disease.
3. Glycoprotein 2b3a antagonists.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Side effects of Beta blockers.
2. Isosorbide dinitrate and isosorbide mononitrate
3. Acute ionotropes
4. Centrally acting vasodilators.
5. Beta blockers in antihypertensive.
6. Aspirin
7. Urokinase
8. Protamine.

**III. Write Notes on:**

**(10 x 3 = 30)**

1. Metoprolol
2. Transdermal nitrate patches.
3. Thiazide diuretics.
4. Digoxin
5. Clopidogrel
6. Eptifibatide
7. Statins
8. Antacids
9. Proton pump inhibitors
10. Aminoglycosides.

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[LE 0212]

FEBRUARY 2014

Sub.code: 1502

**B.Sc. CARDIAC TECHNOLOGY  
FIRST YEAR  
PAPER II – PHARMACOLOGY RELATED TO CARDIAC TECHNOLOGY**

*Q.P. Code : 801502*

**Time: Three hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Enumerate Diuretics. Write the mechanism of action, adverse effects and uses of high ceiling diuretics.
2. Classify antihypertensive drugs. Discuss in detail about Angiotensin Converting Enzyme Inhibitors.
3. Enumerate drugs used in hyperlipidemia. Describe in detail about statins.

**II. Write notes on:**

**(8x5=40)**

1. Dopamine
2. Nifedipine
3. Metoprolol
4. Lidocaine
5. Low molecular weight heparin
6. Anti platelet drugs
7. Streptokinase
8. Nitrates

**III. Short answers on:**

**(10 x3=30)**

1. Uses of Diazepam
2. Adverse effects of hydrocortisone
3. Enumerate Cephalosporins
4. Mention Proton Pump inhibitors. What are their uses.
5. Mention the various techniques in local anaesthesia
6. Toxicity of Aminoglycosides
7. Niacin
8. Enumerate Antacids. What are their adverse effects.
9. Adenosine
10. Diphenhydramine

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[LF 0212]

AUGUST 2014

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**B.Sc. CARDIAC TECHNOLOGY  
FIRST YEAR  
PAPER II – PHARMACOLOGY RELATED TO CARDIAC TECHNOLOGY**

*Q.P. Code : 801502*

**Time: Three hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Enumerate beta blockers. Explain their pharmacological actions, adverse effects & uses.
2. Classify diuretics. Describe the actions, adverse effects & uses of Furosemide.
3. Enumerate drugs used in congestive heart failure. Discuss in detail about Digoxin.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Warfarin
2. Ramipril
3. Amiodarone
4. Lidocaine
5. Statins
6. Urokinase
7. Verapamil
8. Gp2b3a antagonists

**III. Write Notes on:**

**(10 x 3 = 30)**

1. Adrenaline
2. Actions of morphine
3. Prednisolone
4. Adenosine
5. Uses of Penicillins
6. Uses of Diazepam
7. Gentamicin toxicity
8. Dobutamine
9. Low molecular weight heparin
10. Enumerate Antacids. What are their uses?

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**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Enumerate **drugs used in angina**. Write the mechanism of action, adverse effects and uses of **nitrates**.
2. Write briefly about **anti platelet drugs**.
3. Enumerate hypolipidemic drugs. Describe the actions, uses and adverse effects of **statins**.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Enalapril.
2. Nifedipine.
3. Metoprolol.
4. Lidocaine.
5. Low molecular weight heparin.
6. Spironolactone.
7. Streptokinase.
8. Dopamine.

**III. Write Notes on:**

**(10 x 3 = 30)**

1. Complications of high ceiling diuretics.
2. Uses of hydrocortisone.
3. Enumerate Cephalosporins.
4. Mention Proton Pump inhibitors. What are their uses?
5. Mention the various techniques in local anaesthesia.
6. Diphenhydramine.
7. Treatment of heparin toxicity.
8. Midazolam.
9. Niacin.
10. Adenosine.

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