

Q(1c) i) It stimulates adenosine receptors

(ii) Adenosine has short duration of action (about 15s)

(iii) It is used for abolishing acute supraventricular tachycardia

iv) It has low toxicity so it has become the drug of choice
in hypotension.

F16-0

Time allowed: 70 minutes

- Q1. Classify drugs used for treatment of congestive cardiac failure? Pg 112 3
- Q2. How will you treat a patient of Digoxin Toxicity? Pg 120 4
- Q2.a) Discuss Mechanism of action and clinical uses of Digoxin? 3
- Q3. a) What are the advantages of combining nitrates with β blockers in angina? 2
- b) Name the drugs used for hypertensive emergencies? 2
- c) Give Mechanism of action and adverse effects of following? 2+2=2
- i) Clonidine Pg 101 1
ii) Fenoldopam Pg 102 1
iii) Verapamil -
- Q4. Write down adverse effects and clinical uses of following drugs? 5+5
- i) Atropine -
ii) Propanolol -
- Q5. Enumerate indirectly acting cholinergic agonist? 5
- What is Epinephrine reversal phenomenon? → Pg 141 5
- Q6. Compare and contrast loop diuretics with thiazide diuretics in terms of MOA, adverse effects and clinical indications? 5+5
- Q7. Write down MOA of Quinidine? 5
- Enumerate various adverse effects of Amiodarone? 5

Q8. 3 (a) Combination of β -blockers and nitrates useful because the adverse undesirable compensatory effects evoked by the nitrates (tachycardia & increased cardiac force) are prevented or reduced by β -blockers.

also an anti convulsant.

Adverse effects of succinylcholine

are:

1. HyperKalemia.
2. Muscle pain.
3. ↑ intragastric and intraocular pressure.

(3)

Nageen

Q. No. 1.

Classify antiarrhythmic drugs. Describe
MOA & AIE of Quinidine.

Q. No. 2.

Write down the indication & AIE of
frusemide.

Q. No. 3.

Write down the means of use of
Channel blockers.

Q. No. 4.

Write names of 3 drugs used for
Chronic heart failure.

Adverse effects of ACE inhibitors.

Q. No. 5.

Enumerate AIE of digoxin. How
can be managed.

Q. No. 6.

Write down uses & AIE of nitro

PHARMACOLOGY TEST (CVS)

CVS

Time allowed: 1 hour 15 min

Max Marks: 40

- | | |
|---|---|
| 1.a. Classify antihypertensive drugs ✓ P.P | 3 |
| b. Name four vasodilators with their brief mechanism of action. ? | 4 |
| c. Describe the differences between ACE inhibitors and ARB's. ? | 1 |
| | |
| ✓ 2.a. Explain why the combination of a nitrate with a β blocker may be more effective than either alone. | 3 |
| b. Write down the MOA and adverse effects of calcium channel blockers. | 3 |
| c. Explain the role of nitrates in treatment of cyanide poisoning. | 2 |
| | |
| ✓ 3.a. List positive inotropic drugs other than digitalis that have been used in heart failure. | 1 |
| b. Explain the mechanical and electrical effects of digoxin in treatment of heart failure. ? | 5 |
| c. How does digoxin cause negative chronotropic effect (bradycardia)? | 2 |
| | |
| ✓ 4.a. List 5 major types of diuretics according to their site of action. | 5 |
| b. Give clinical uses and adverse effects of spironolactone. ✓ P.P | 2 |
| c. Describe the possible interaction of cardiac glycosides with loop diuretics. | 1 |
| | |
| ✓ 5.a. Describe briefly the differences between subclasses of Class I antiarrhythmics. | 3 |
| b. Discuss the MOA and adverse effects of amiodarone. | 3 |
| c. Name an antiarrhythmic drug for a lady suffering from Graves' disease (hyperthyroidism)? What is the mechanism of action of this drug in this particular case? | 2 |

F16-074

1. a) Classify Antihypertensive drugs? 3
b) Explain MOA of ACE Inhibitors. Enumerate their uses & Adverse Effects? 4
2. a) Compare & Contrast between thiazide & Loop diuretics? 3
b) Explain MOA of Ca channel blockers as anti - anginal drugs? 3
3. a) Enumerate drugs used for treatment of Heart failure? 3
b) Explain MOA of digoxin? Write down treatment of digoxin toxicity? 2
4. a) Enumerate class III anti - arrhythmic drugs? 3
b) Write down uses & adverse effects of Amiodarone? 3
5. Short Notes: 2
 - a) MOA & Adverse Effects of statins 2
 - b) Osmotic diuretics 2
 - c) Clonidine as Anti - hypertensive drug 2
 - d) Management of hypertensive emergency

CVS - Pharmacology

Test No 4

2016

PHARMACOLOGY TEST CVS
3rd Year MBBS

SFQs

Q24-

Marks: 35

1. a) Classify anti arrhythmic drugs. 121K

lipinot Pg 207

b) Write adverse effects of Amiodarone. 131K Pg 215 lipinet

2

1.5

Back

c) What are the merits of Adenosine as an anti arrhythmic drug? back Balb

1.5

2. Compare and contrast Loop and Thiazide diuretics in terms of MOA, indications and adverse effects. Pg 142K

Ket 2016

Pg 237, 238

5

d) Classify Calcium channel blockers. What are their uses and adverse effects? 111K Pg 219 lipn

2

e) Write names of 3 drugs used for heart failure. digoxin, clofibrate, inamivine, verapamil, nifedipine Pg 234, 235 lipn

1.5

f) What are the adverse effects and contraindications of ACE inhibitors?

fetal

2

Ket 2016

ACE inhibitors can induce malformation and cause fetal death.

g) What are the pharmacological effects of Digoxin? 116 K Pg 216 Who are 1.5 pregnant

and elderly

h) Write names of two main drugs used for:

Verapamil, diltiazem nifedipine

Pg 220, 221

1+1+1

i) inotropic, chronotropic

a) Angina of effort b) Vasospastic Angina

Lung acting nitrates (Isosorbide nitroglycerin)

c) Unstable Angina

Nitroglycerin, atenolol

and positive chronotropic

b) What are the adverse effects of organic nitrates?

Pg 222

2

c) What are the adverse effects of:

↑ in heart rate, ↑

a) Losartan

102K

b) Propranolol

92K

c) Fenoldopam

102K

1.5+1.5+1.5

↑ conduction of impulse

7. Write the MOA and uses of:

a) Sodium Nitroprusside

120K

b) Minoxidil

102K

c) Spironolactone

120K

2+1.5+2

Pg 141K

6

Name General Anesthetics (I.V.) ①

①

Machen & Adver. effect of Phenothiazine

Diazepam

→ Name General Anesthetics (I.V.). ①

→ Mechanism & Adverse Effects of - Phenothiazine ②

- Diazepam ②

DONE

Questions/ Assignments - 4th Round

CVS

Cardiovascular Pharmacology

- A) Classify anti arrhythmic drugs. Katzung 130 Pg 130K
Lippincott 276 Pg 131 K 127K Repeat 100K
-) Write adverse effects of Amiodarone. Lippincott 278 Pg 131 K 127K 278K 141K
- I What are the merits of Adenosine as an anti arrhythmic drug? Lippincott 278 Pg 131 K 127K
- Compare and contrast Loop and Thiazide diuretics in terms of MOA, indications and adverse effects. Katzung 140 Pg 248 Lippincott 248
- ✓ Classify Calcium channel blockers. What are their uses and adverse effects? Lippincott 248 111K Back of Page
- A) Write names of 3 drugs used for heart failure. Katzung 112 Pg 108 Renal Stenosis 112K 120K Pregnancy 117K Page 116 + 117K
- i) What are the adverse effects and contraindications of ACE Inhibitors? 120K Digoxin antibodies
- ii) What are the adverse effects of Digoxin? How would you manage acute Digoxin toxicity? 116 + 117K
- A) Write names of two main drugs with MOA used for: Angina of effort b) Vasospastic Angina 111K Repeated 111K Vasospastic → Verapami Angina of effort → Verapami Diliazide
- i) What are the names and adverse effects of organic nitrates? 111K
- ii) Write down uses and adverse effects of: Losartan 102K 92K 96 103K a) Propranolol 102K c) Fenoldopam 102K c) Spironolactone 111K Stop drug IV magnesium (MgSO4) Procainamide, Disopyramide Quinidine
- iii) Write the MOA and uses of: Sodium Nitroprusside 102K b) Methyldopa 101K c) Prazosin 101K (Prazosin) Minoxidil (102)
- iv) Name three drugs which can produce torsade de pointes arrhythmias. How is it managed? Quinidine 131K 130K
- v) Name and justify the use of preferred antihypertensive drugs in the following comorbid conditions: Diabetes 102K 102K Angina ThI 102K BPH 101K (Prazosin) Minoxidil (102) Captopril (ACE inhibitor) carvedilol (beta-blocker)
- vi) Name two vasodilators which act through opening of potassium channels, what are their uses and adverse effects? Diltiazide (102K), Nicorandil → used in angina. A/E → Headache, constipation, vasodilator syn. N & V
- vii) How would you manage a patient of unstable angina? Nitroglycerine & antiplatelet therapy & V
- 110 Compare and contrast heparin and warfarin in a tabulated form.
- 111 a) Write names of three antiplatelet drugs. Write mechanism of action and indications of GP IIb/IIIa antagonists.
- b) Differentiate between streptokinase and alteplase in terms of MOA and adverse effects.
- 112 Write down MOA, uses and adverse effects of i) Statins ii) Niacin iii) fibrates
- MOA OF ACE Inhibitors? 120K Angina Pectoris drugs? 103K USCS and A-E of nitrates and nitrites? 111K