

SHORT ESSAY QUESTIONS ✓ G.P  
FIRST TERM TEST OF PHARMACOLOGY

(11)

Max Marks: 55

Time Allowed: 2 hours

Q1) Define following terms with example of each:

- i) Bioavailability      ii) Zero order kinetics      iii) Tolerance

1.5+1.5+1.5

Q2) Describe factors affecting absorption of drugs.

2.5

Q3) What is the clinical significance of Volume of Distribution of Drugs?

2

Q4) Give detail of pharmacological antagonism with its subtypes.

3

Q5) Enumerate different types of receptors with examples.

4

Q6) Write down the adverse effects and clinical uses of following drugs:

- i) Atropine      ii) Propranolol

4+4

Q7) Enumerate indirectly acting cholinergic agonists.

2

Q8) Classify adrenergic antagonists on the basis of receptor selectivity.

3

Q9) What is Epinephrine Reversal Phenomenon.

1

Q10) Classify antihypertensive drugs.

2.5

Q11) Describe Mechanism of Action of Captopril.

2

Q12) Describe pharmacological effects of digoxin on cardiovascular system?

2.5

Q13) Enumerate antianginal drugs.

2

Q14) Describe mechanism of nitrates?

2

Q15) Describe the adverse effects of calcium channel blockers.

4

Q16) Give classification of Antiarrhythmic drugs.

1.5

Q17) Enumerate various adverse effects of Amiodarone?

1.5

Q18) Write down the Mechanism of action of Quinidine

Q19) Compare and contrast loop diuretics with thiazide diuretics in terms of Mechanism of Action, Adverse Effects and Clinical Indications.

5

Repeat Notes

Pg 60 U

Pg 85

Notes

93K

225L

Pg 97K

Pg 96C

4C Notes

103K

106K

1285L

Pg 287

Pg 111K

K Pg 121

B131K

276L

NGT.es

Pg 272L

CDone

JS



3) Asthma ← (3) a) Classify drugs used for treatment of Bronchial Asthma?

b) Write down MOA and Adverse Effects of Theophylline? <sup>3</sup>

4) a) Enumerate drugs used for treatment of Parkinsonism? <sup>4</sup>

b) Explain why Carbidopa is given in combination with Levodopa? <sup>3</sup>

5. Write short notes on:

a) MOA and Uses of Aspirin <sup>2</sup> *Acetylation of COX1 and COX2 results in prostaglandin synthesis*

b) Difference between 1<sup>st</sup> & 2<sup>nd</sup> Generation Antihistaminic drugs <sup>1</sup>

c) Uses of Prostaglandins <sup>2</sup>

d) MOA and Adverse Effects of Allopurinol <sup>2</sup>

*Hyperuricemia*  
*GI upset*

*Renovascular hypertension*

6) <sup>3</sup>

*allergic Asthma*

*Paralytic*  
*muscle relaxant*  
*and sedative*

*NSAIDs*

*H1 blockers*

*Prost*



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- Q1.a) Define following terms with example of each:
- |                    |                                |                |             |
|--------------------|--------------------------------|----------------|-------------|
| i) Bioavailability | ii) <u>Zero order kinetics</u> | iii) Tolerance | 1.5+1.5+1.5 |
|--------------------|--------------------------------|----------------|-------------|
- b) Describe factors affecting absorption of drugs. 2.5
- c) What is the clinical significance of Volume of Distribution of Drugs? 2
- Q2.a) Give detail of pharmacological antagonism with its subtypes. 3
- b) Enumerate different types of receptors with examples. 4
- Q3. Write down the adverse effects and clinical uses of following drug:
- |             |                 |  |     |
|-------------|-----------------|--|-----|
| i) Atropine | ii) Propranolol |  | 4+4 |
|-------------|-----------------|--|-----|
- Q4.a) Enumerate indirectly acting cholinergic agonists. 2
- b) Classify adrenergic antagonists on the basis of receptor selectivity. 3
- c) What is Epinephrine Reversal Phenomenon. 1
- Q5a) Classify antihypertensive drugs. *93k* 2.5
- b) Give Mechanism of Action of Captopril. *102k* 2
- c) Describe pharmacological effects of digoxin on cardiovascular system? *265k* 2.5 *114k*
- Q6a) Enumerate antianginal drugs. *103k* 2
- b) What is mechanism of action of nitrates? ~~105k~~ *111k, 106k* 2
- c) Describe the adverse effects of calcium channel blockers. *111k* 2
- Q7a) Give classification of Antiarrhythmic drugs. *121k* 4
- b) Enumerate various adverse effects of Amiodarone? *131k* 1.5
- c) Write down the Mechanism of action of Quinidine. *130k* *Procainamide* 1.5
- Q8. Compare and contrast loop diuretics with thiazide diuretics in terms of Mechanism of Action, Adverse Effects and Clinical Indications. *141k* 5

Q Digoxin toxicity? *117k*



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Q1. a) Define following terms with example of each:

i) Bioavailability      ii) Zero order kinetics      iii) Tolerance      1.5+1.5+1.5

b) Describe factors affecting absorption of drugs.      2.5

c) What is the clinical significance of Volume of Distribution of Drugs?      2

Q2 a) Give detail of pharmacological antagonism with its subtypes.      3

b) Enumerate different types of receptors with examples.      4

Q3. Write down the adverse effects and clinical uses of following drugs:

i) Atropine      ii) Propranolol      4+4

Q4. a) Enumerate indirectly acting cholinergic agonists.      2

b) Classify adrenergic antagonists on the basis of receptor selectivity.      3

c) What is Epinephrine Reversal Phenomenon.      1

Q5. a) Classify antihypertensive drugs.      2.5

b) Give Mechanism of Action of Captopril. *Ace inhibitor & synthesis of Angiotensin*      2

c) Describe pharmacological effects of digoxin on cardiovascular system? *HR, inotropic*      1/4/2.5

Q6. a) Enumerate antianginal drugs.      2

b) What is mechanism of action of nitrates? *106K*      2

c) Describe the adverse effects of calcium channel blockers. *111K*      2

Q7. a) Give classification of Antiarrhythmic drugs.      4

b) Enumerate various adverse effects of Amiodarone? *130K*      1.5

c) Write down the Mechanism of action of Quinidine *130K*      1.5

Q8. Compare and contrast loop diuretics with thiazide diuretics in terms of Mechanism of Action, Adverse Effects and Clinical Indications. *141K*      5