

Jan-2015

**BLDE UNIVERSITY**  
**MBBS PHASE – II EXAMINATION**  
**(REVISED SCHEME)**  
**PHARMACOLOGY - PAPER - I**  
**QP CODE : 2005**

[Time : 3 Hours]

[Max.Marks : 100]

Your answer should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary.  
Each answer should be written on new page only.  
Write Question No. in left side of margin.

**Long Essay: (Answers to be started on fresh page only) 2 x 10 = 20 marks**

1. Define the term Bio availability of drugs. Describe the factors influencing the drug absorption and bio availability by oral route. Name four drugs which are subjected to first pass metabolism.  
(2+6+2)
2. Classify anti epileptics. Describe the mechanism of action, adverse effects and therapeutic uses of Phenytoin.  
(4+2+2+2)

**Short Essay: (Answers to be started on fresh page only) 10 x 5 = 50 marks**

3. Plasma half life and its significance
4. Dissociative anesthesia
5. Enumerate selective Serotonin Reuptake Inhibitors and their advantages
6. Uses and techniques of local anesthesia
7. Uses of Beta adrenergic blockers (Cardiac & Non cardiac)
8. Management of Organo phosphorous compound poisoning
9. Enumerate dopa decarboxylase inhibitors and advantages if combined with levodopa
10. Enumerate plasma expanders and their uses
11. Angiotensin converting enzyme inhibitors : uses and adverse effects
12. Potassium sparing diuretics : Mechanism, uses and adverse effects

**Short Answer: (Leave three lines gap between the answers) 10 x 3 = 30 marks**

13. Name three drugs used in glaucoma
14. Explain first dose phenomenon and give two examples
15. Oral iron preparations and their adverse effects
16. Uses and adverse effects of nitrates
17. Three advantages of low molecular weight heparins
18. Three indications for digoxin therapy
19. Name three class of Hypolipidemic agents with one example in each group
20. Name three classes of calcium channel blockers with one example in each group
21. List three uses of mannitol
22. Three uses of desmopressin

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**2x10=20**

1. Classify Antihypertensive drugs. Write the pharmacological actions, adverse effects and therapeutic uses of Calcium channel blockers
2. Define the term Bioavailability. Discuss the various factors influencing absorption and bioavailability of drugs

**Short Essay: (Answers to be started on fresh page only)**

**10x5=50**

3. Explain pharmacogenetics with five suitable examples
4. Therapeutic uses and adverse effects of Nitrates
5. Compare and contrast diazepam and phenobarbitone
6. Plasma expanders- properties and therapeutic uses
7. Therapeutic uses and adverse effects of furosemide
8. Therapeutic uses of atropine and its substitutes
9. Therapeutic uses and adverse effects of alpha blockers
10. Mechanism of action and adverse effects of digoxin
11. Sodium valproate- Mechanism of action, therapeutic uses and adverse effects
12. Preanesthetic medication

**Short Answers: (Leave three lines gap between the answers)**

**10x3=30**

13. Give reason for combining Lignocaine with adrenaline
14. Rational for using Dopamine in cardiogenic shock
15. Define therapeutic index. Give 3 examples of drugs with low therapeutic index
16. Rational for alkalization of Urine in barbiturate poisoning
17. Three uses of Tranexaemic acid
18. Edrophonium test
19. Rationale for using Beta blockers in angina pectoris
20. Folic acid alone is contraindicated in pernicious anemia - Explain
21. Two drugs used in PSVT with mechanism of action of any one
22. Three therapeutic uses of morphine with rationale

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**Long Essay: (Answers to be started on fresh page only)**

**2x10=20**

1. Classify glucocorticoids. Write the pharmacological actions, adverse effects and therapeutic uses of glucocorticoids
2. Classify  $\beta$  lactum antibiotics. Write the mechanism of action, adverse effects and therapeutic uses of benzyl penicillin

**Short Essay: (Answers to be started on fresh page only)**

**10x5=50**

3. Management of status asthmaticus
4. Radioactive iodine- mechanism of action , advantages and disadvantages
5. Omeprazole- mechanism of action and therapeutic uses
6. Therapeutic uses and adverse effects of aspirin
7. Methotrexate-mechanism of action, adverse effects and therapeutic uses
8. Biguanides- mechanism of action, adverse effects and therapeutic uses
9. Rifampicin- mechanism of action, adverse effects and therapeutic uses
10. Enumerate three drugs used in chloroquine resistant malaria with their mechanism of action
11. Cyclosporine- mechanism of action, adverse effects and therapeutic uses
12. Therapeutic uses and adverse effects of tetracyclines

**Short Answers: (Leave three lines gap between the answers)**

**10x3=30**

13. Rationale for using ergometrine in post partum hemorrhage(PPH)
14. Management of Lepa reaction
15. Mechanism of action of co-trimoxazole
16. Three therapeutic uses of praziquantel
17. Mechanism of action and uses of ondansetron
18. Rationale for combining Diphenoxylate with Atropine
19. ORS- ingredients and uses
20. Three therapeutic uses of penicillamine
21. Three adverse effects of combined oral contraceptive pills
22. Mechanism of action and two uses of Terbinafine

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**Long Essay: (Answers to be started on fresh page only)**

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1. Classify Penicillins. Write the Mechanism of action, adverse effects & therapeutic uses of Ampicillin.
2. Enumerate oral anti-diabetic drugs. Describe mechanism of action, adverse effects and uses of Sulfonylureas.

**Short Essay: (Answers to be started on fresh page only)**

**10 x 5 = 50 marks**

3. Rifampicin : mechanism of action and uses.
4. Common properties of Aminoglycosides
5. Metronidazole: mechanism of action and adverse effects.
6. Anti viral drugs used in influenza
7. Chloroquine mechanism of action and uses.
8. Vinca alkaloids : Adverse effects and uses.
9. Radioactive Iodine: mechanism and adverse effects.
10. Selective estrogen receptor modulators
11. Enumerate proton pump inhibitors and write its mechanism of action
12. Therapeutic uses of prostaglandins and its analogues.

**Short Answer: (Leave three lines gap between the answers)**

**10 x 3 = 30 marks**

13. Write three therapeutic uses of Betamethasone.
14. Write three Mucolytics and their therapeutic uses.
15. Write three chelating agents and their therapeutic uses.
16. Enumerate three drugs used in DMARD's
17. Rationale of combining aluminum with magnesium hydroxide in antacids.
18. Write three anti emetics and their therapeutic uses.
19. Rationale of using Pyridoxine with INH.
20. Name three drugs used in Bronchial asthma.
21. Name three selective COX-2 inhibitors and their advantages.
22. Management of Acute Gout.