

**Q.P. CODE: M102B010****Dr. NTR UNIVERSITY OF HEALTH SCIENCES, AP, VIJAYAWADA-520 008****MBBS DEGREE EXAMINATION: JANUARY, 2025****SECOND M.B.B.S. EXAMINATION****PHARMACOLOGY PAPER-I****(Theory Questions)****Time: 2 Hour 40 Minutes****Max Marks: 80****Note: Answer all questions.****Draw a neat diagram wherever necessary**

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**SECTION-II (THEORY QUESTIONS - 80 MARKS)****WRITE ESSAY ON THE FOLLOWING:****2 X15 = 30**

1. A 60-year-old man came to the hospital with complaints of chest tightness and discomfort, particularly after walking or climbing stairs. His pain is relieved by rest. ECG and Echo were done, and a diagnosis of angina was made. Classify drugs used in angina. Enumerate the mechanism of action, uses, and adverse effects of nitrates. Add a note on drugs used in the treatment of myocardial infarction.

2. Classify antiepileptic drugs. Write the mechanism of action, uses, and adverse effects of valproate. Add a note on the treatment of status epilepticus.

**WRITE SHORT NOTES ON THE FOLLOWING:****10x5=50**

3. Write in detail about the consequences of microsomal enzyme induction and possible clinical uses due to enzyme induction.

4. Pharmacovigilance

5. Classify sympathomimetics and their therapeutic indications.

6. As an ophthalmologist, you would like to dilate the pupil for fundus examination.
- What drug would you use to dilate the pupil?
  - What advice will you give to the patient after completing the eye examination?
  - Enlist mydriatics and their indications.
7. Preanesthetic medication.
8. Selective serotonin reuptake inhibitors.
9. What is the rationale of combining levodopa with carbidopa? List out the drugs used in drug-induced parkinsonism.
10. Enlist prostaglandin analogues and their indications.
11. Cardiac and non-cardiac uses of beta-blockers.
12. Describe the therapeutic uses and adverse effects of high-ceiling diuretics.

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