

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**SECOND MBBS DEGREE EXAMINATION – JANUARY 2022**  
**SUBJECT: PHARMACOLOGY – PAPER I (ESSAY)**

(2018-19 & Prior Batch - Regular/Repeater)

Monday, January 10, 2022

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

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**✍ Answer ALL the questions.**

- 1A. Classify anticoagulants
- 1B. Explain the mechanism of action, uses of oral anti coagulants
- 1C. Write briefly on management warfarin overdose

(3+4+3 = 10 marks)

- 2A. Classify diuretics with examples
- 2B. With a help of a diagram, explain the site and mechanism of action of loop diuretics.
- 2C. Mention uses and adverse effects loop diuretics

(4+3+3 = 10 marks)

**3. Answer the following:**

- 3A. Name two ACE inhibitors, explain the mechanism of action and uses of any one
- 3B. Write briefly on Therapeutic drug monitoring
- 3C. Enumerate cardio-selective beta blockers and explain two uses with the basis
- 3D. Write briefly on selective  $\beta_2$  agonists
- 3E. Explain Anti H. Pylori regimes
- 3F. Explain Transdermal route of drug administration with examples
- 3G. Write briefly on Post marketing surveillance
- 3H. Enumerate four reversible anti cholinesterases and explain two uses of them
- 3I. Explain clinical implications of Plasma protein binding with suitable examples
- 3J. Name four atropine substitutes and explain the basis of these drugs used in bronchial asthma and Parkinsonism
- 3K. Explain the indications and adverse effects of parenteral iron preparations
- 3L. Explain mechanism of action, uses and adverse effects of Low dose aspirin
- 3M. Name two bulk forming purgatives, explain their uses and two contraindications
- 3N. Enumerate four chelating agents and mention one use for each
- 3O. Enumerate drugs used in acute migraine and explain the rationale for their use

(4 marks  $\times$  15 = 60 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION**  
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**SUBJECT: PHARMACOLOGY – PAPER II (ESSAY)**

**(2018-19 & Prior Batch - Regular/Repeater)**

Tuesday, January 11, 2022

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

**Answer ALL the questions.**

- 1A. Classify penicillins.
- 1B. List two drug combinations with penicillins and explain the basis for the combination.
- 1C. Explain superinfection with an example.
- (4+4+2 = 10 marks)
2. Classify antiepileptic drugs. Explain the mechanism of action, uses and adverse effects of sodium valproate.
- (4+2+2+2 = 10 marks)
3. **Answer the following:**
- 3A. Explain adverse effects of insulin.
- 3B. Name four glucocorticoids. Explain two uses of glucocorticoids with the basis for the same.
- 3C. Explain two techniques of local anaesthesia with an example for each.
- 3D. Write briefly on artemisinin based combination therapy.
- 3E. List four first line antitubercular drugs and mention an important adverse effect of each of them.
- 3F. Write briefly on anabolic steroids.
- 3G. Explain the mechanism of action and adverse effects of combined oral contraceptive pill.
- 3H. Explain action of Vitamin D on calcium balance. Mention two uses of vit D.
- 3I. Mention four objectives of preanaesthetic medication with an example of drug used for each.
- 3J. Explain the management of methanol poisoning.
- 3K. Explain the interaction between levodopa and carbidopa.
- 3L. Mention two groups of drugs used for the treatment of depression with suitable examples. Explain their mechanism of action.
- 3M. List four aminoglycosides. Mention four common properties shared by aminoglycosides.
- 3N. Explain the mechanism of action and mention four uses of fluoroquinolones.
- 3O. Mention four toxicities of anticancer drugs and methods to ameliorate them.
- (4 marks × 15 = 60 marks)

