

MANIPAL UNIVERSITY
SECOND MBBS DEGREE EXAMINATION – MAY 2016
SUBJECT: PHARMACOLOGY – PAPER I (ESSAY)

Monday, May 09, 2016

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

- 1A. Classify diuretics.
1B. Explain the mechanism of action, uses and adverse effects of thiazides. (3+1+3+3 = 10 marks)
- 2A. Classify anticoagulants. Write the mechanism of action and adverse effects of heparin.
2B. Write the advantages of low molecular weight heparins over heparin. (3+2+2+3 = 10 marks)
3. **Write short notes on:**
- 3A. Define therapeutic drug monitoring. Mention three indications for it.
3B. Mention four drugs, belonging to different groups, used in glaucoma with the mechanism of action of each.
3C. Explain receptor downregulation and upregulation with suitable examples.
3D. Mention two uses of atropine with the basis for the same.
3E. Define rational use of medicines. Mention three examples of irrational drug use.
3F. Write four differences between ranitidine and cimetidine.
3G. Define the term 'prokinetic'. Write the mechanism of action, uses and adverse effects of any one prokinetic drug.
3H. Mention two groups of drugs used in bronchial asthma with an example for each. Explain their mechanism of action.
3I. Write briefly on sumatriptan.
3J. Mention two drugs of different groups, used for the treatment of angina pectoris with the basis for the same.
3K. Write short note on amiodarone.
3L. Mention four uses and four adverse effects of H₁ antihistaminics.
3M. Write briefly on tachyphylaxis.
3N. Explain mucolytics and expectorants with suitable examples.
3O. Write briefly on nasal decongestants.

(4 marks × 15 = 60 marks)



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Tuesday, May 10, 2016

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Maximum Marks: 80

☞ Answer ALL the questions.

1. List four sulfonylureas and explain the mechanism of action of any one. Mention its adverse effects and one clinically important drug interaction. Describe the management of diabetic ketoacidosis.

(2+2+1+1+4 = 10 marks)

2. Mention two oral and two parenteral third generation cephalosporins. Describe their mechanism of action, uses and adverse effects.

(2+3+3+2 = 10 marks)

3. **Write short note on:**

3A. Enumerate two selective serotonin reuptake inhibitors. Explain their advantages over tricyclic antidepressants.

3B. Mention the drugs used to ameliorate the toxicities of anticancer drugs with the basis for their use.

3C. Describe the advantages of benzodiazepines over barbiturates.

3D. Write briefly on peripheral DOPA decarboxylase inhibitors.

3E. Explain the role of rifampicin in the treatment of tuberculosis. Mention two other indications for use of rifampicin and list its characteristic adverse effects.

3F. Name two uterine stimulants. Mention one therapeutic indication for each with rationale for their use.

3G. Describe the pharmacological management of acute muscular dystonia induced by antipsychotics. Name two antipsychotics that are less likely to produce this adverse effect.

3H. Write briefly on anabolic steroids.

3I. Describe the pharmacological actions of morphine in the central nervous system.

3J. Describe the pharmacological management of thyrotoxic crisis.

3K. Write briefly on superinfection.

3L. Describe the post-exposure prophylaxis of HIV infection.

3M. Name four groups of immunosuppressant drugs with examples.

3N. Explain the mechanism of action of carbamazepine. Mention its uses and adverse effects.

3O. Mention the differences between erythromycin and azithromycin.

(4 marks × 15 = 60 marks)

