

MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND MBBS DEGREE EXAMINATION – AUGUST 2020
SUBJECT: PHARMACOLOGY – PAPER I (ESSAY)

Monday, August 10, 2020

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

1. Explain the phases of biotransformation reactions with examples. Write the clinical implications of hepatic microsomal enzyme system.

(6+4 = 10 marks)

2. Classify drugs used in angina pectoris with two examples for each group. Explain the mechanism of action, adverse effects and other uses of any one drug.

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

3. **Answer the following:**

3A. Enumerate the groups of drugs which reduce gastric acid secretion with suitable examples.

3B. Write briefly on 5-HT₃ antagonists.

3C. Explain the mechanism of action of heparin. Name two low molecular weight heparins and explain two advantages of them over unfractionated heparin.

3D. Write briefly on erythropoietin.

3E. Outline the pharmacotherapy of acute severe asthma (status asthmaticus).

3F. Enumerate the groups of drugs with suitable examples used for cough.

3G. Name two second generation antihistamines. Write two differences over conventional antihistamines. Mention four uses of first generation antihistamines.

3H. Write briefly on drug therapy of migraine.

3I. Explain the mechanism of action of spironolactone. Mention its uses and adverse effects.

3J. Explain different types of drug antagonism with examples.

3K. Write the objectives of phase I and phase II clinical trials.

3L. Write briefly on nasal decongestants.

3M. Explain four uses of atropine substitutes.

3N. Explain four uses of prazosin.

3O. Outline the pharmacotherapy of organophosphate poisoning.

(4 marks × 15 = 60 marks)



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Tuesday, August 11, 2020

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

Answer ALL the questions.

1A. Classify antimalarial drugs. Explain the mechanism of action and adverse effects of chloroquine.

1B. Write briefly on chemoprophylaxis of malaria.

(4+2+1+3 = 10 marks)

2A. Mention four benzodiazepines. Explain their mechanism of action.

2B. Mention their advantages over barbiturates as hypnotic.

2C. Add a note on non benzodiazepine hypnotics.

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

3. **Answer the following:**

3A. Name the drugs used for intestinal amoebiasis and explain the mechanism of any one.

3B. Explain two mechanisms of bacterial drug resistance and mention two methods to minimize development of drug resistance.

3C. Mention two antimicrobials of different groups preferred for enteric fever and explain their mechanism of action.

3D. Write briefly on rifampicin.

3E. Name the drugs used in treatment of filariasis. Explain their mechanism of action.

3F. Explain mechanism of action of lignocaine and mention its uses and adverse effects.

3G. Explain the rationale of the combination – levodopa + carbidopa + entacapone.

3H. Write briefly on disease modifying antirheumatic drugs.

3I. Name four drugs used in generalized tonic clonic seizures. Explain the mechanism of action and adverse effects of any one drug.

3J. Explain four therapeutically useful actions of aspirin.

3K. Enumerate two sulfonylureas and explain the mechanism of action and adverse effects of any one drug.

3L. Write briefly on radioactive iodine.

3M. Name the selective estrogen receptor modulators. Explain the actions of any one on different tissues.

3N. Name two long acting glucocorticoids. Explain any three therapeutically useful actions of them.

3O. Write briefly on bisphosphonates.

(4 marks × 15 = 60 marks)

