

MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND MBBS DEGREE EXAMINATION – DECEMBER 2018

SUBJECT: PHARMACOLOGY – PAPER I (ESSAY)

Wednesday, December 26, 2018

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

Ⓢ Answer ALL the questions.

- 1A. Classify antimuscarinic agents.
1B. Explain the therapeutic uses of antimuscarinic agents.
1C. Explain the contraindications for the same. (4+4+2 = 10 marks)
- 2A. Classify the drugs used for the treatment of congestive cardiac failure.
2B. Explain the mechanism of action and uses of any one group.
2C. Explain the management of acute myocardial infarction. (4+4+2 = 10 marks)
3. Answer the following:
- 3A. Explain microsomal enzyme inhibition. Illustrate its clinical significance with suitable examples.
3B. Write briefly on informed consent.
3C. Define drug dependence. Explain its types with appropriate examples.
3D. Enumerate four chelating agents. Explain the uses and adverse effects of any one.
3E. Enumerate any two 5HT₃ antagonists. Explain their therapeutic uses.
3F. Explain the mechanism of action and uses of misoprostol.
3G. Mention two Low molecular weight Heparins(LMWHs). What are the advantages of low molecular weight heparins over unfractionated heparin?
3H. Enumerate any four antiplatelet agents. Explain the uses and adverse effects of Gp II_b / III_a inhibitors.
3I. Explain the mechanism of action and uses of Sodium chromoglycate.
3J. Explain the mechanism of action, uses and adverse effects of acetazolamide.
3K. Enumerate any two classes of drugs used for glaucoma with one example for each. Mention four advantages of using topical β blockers over miotics.
3L. Name four dihydropyridine derivatives. Explain two uses for the same.
3M. Mention four drugs used for the prophylaxis of migraine. Explain the mechanism of action of sumatriptan.
3N. Write briefly on G protein coupled receptors.
3O. Explain phase 1 and phase 2 depolarizing block. Add a note on succinylcholine apnoea. (4 marks × 15 = 60 marks)



Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND MBBS DEGREE EXAMINATION – DECEMBER 2018



SUBJECT: PHARMACOLOGY – PAPER II (ESSAY)

Thursday, December 27, 2018

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

☞ Answer ALL the questions.

1. Classify insulin preparations based on the duration of action. Explain the adverse effects of insulin. How will you manage diabetic ketoacidosis? Enumerate the various insulin delivery devices.
(3+3+2+2 = 10 marks)

2. Classify opioid analgesics with suitable examples. Explain the actions of morphine on central nervous system. Mention four contraindications of morphine. Mention two antidotes useful in morphine poisoning.
(3+4+2+1 = 10 marks)

3. Answer the following:
 - 3A. Explain two modes of acquired resistance to antimicrobial agents. How will you prevent drug resistance to antibiotics?
 - 3B. Write the mechanism of action and uses of cotrimoxazole.
 - 3C. Compare and contrast: ampicillin and amoxicillin
 - 3D. Explain common properties of aminoglycoside antibiotics.
 - 3E. Write briefly on rifampicin.
 - 3F. Compare and contrast: clotrimazole and ketoconazole
 - 3G. Explain four general toxicities of anticancer drugs.
 - 3H. How will you manage thyroid storm (thyrotoxic crisis)?
 - 3I. Write briefly on anabolic steroids.
 - 3J. Mention two drugs that contract and two drugs that relax pregnant uterus. Write the drug of choice for induction of labour with pharmacological basis.
 - 3K. Enumerate the complications of general anaesthesia during and after anaesthesia.
 - 3L. How will you treat status epilepticus?
 - 3M. Compare and contrast: chlorpromazine and risperidone
 - 3N. Mention four drugs affecting GABA receptor indicating the mechanism of action.
 - 3O. Enumerate four groups of drugs used in parkinsonism giving suitable examples.
(4 marks × 15 = 60 marks)