

MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND MBBS DEGREE EXAMINATION – MAY 2019
SUBJECT: PHARMACOLOGY – PAPER I (ESSAY)

Monday, May 13, 2019

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

Answer ALL the questions.

1A. Name four angiotensin converting enzyme (ACE) inhibitors. Explain the uses and adverse effects of this group.

1B. Compare angiotensin converting enzyme (ACE) inhibitors with angiotensin receptor blockers.
(7+3 = 10 marks)

2A. Classify α - blockers

2B. Mention three uses of α - blockers with the basis for the same.

2C. Add a note on first dose phenomenon.

(2+6+2 = 10 marks)

3. **Answer the following:**

3A. Explain the implications of plasma protein binding with examples.

3B. Name two parenteral iron preparations. Mention their indications and adverse effects.

3C. Explain mechanism of action and adverse effects of metoclopramide.

3D. Explain four consequences of drug interaction.

3E. Write briefly on drug tolerance.

3F. Name four antihistamines. Mention their four uses.

3G. Define chelating agent. Add a note on chelating agent used in copper poisoning.

3H. Mention two drugs used in Inflammatory bowel disease and explain their mechanism of action.

3I. Name two antiplatelet drugs of different groups and explain their mechanism of action.

3J. Write briefly on mast cell stabilizers.

3K. Write short note on cough expectorants.

3L. Explain the mechanism of action and uses of vasopressin analogues.

3M. Write management of organophosphorus poisoning.

3N. Write briefly on phase IV clinical trial.

3O. Name four centrally acting skeletal muscle relaxants. Mention their four uses.

(4 marks \times 15 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND MBBS DEGREE EXAMINATION – MAY 2019
SUBJECT: PHARMACOLOGY – PAPER II (ESSAY)

Tuesday, May 14, 2019

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ Answer ALL the questions.

- 1A. Classify anti-retroviral drugs.
- 1B. Explain the mechanism of action of any one group.
- 1C. Add a note on the postexposure prophylaxis of HIV.

(4+3+3 = 10 marks)

- 2A. Classify general anaesthetics with examples.
- 2B. Explain the advantages and disadvantages of Halothane.
- 2C. Add a note on preanesthetic medication.

(3+3+4 = 10 marks)

3. Answer the following:

- 3A. Explain the mechanism of action, uses and adverse effects of Cotrimoxazole.
- 3B. Explain the terms concentration dependent killing and time dependent killing with an example for each.
- 3C. Explain the mechanism of action, uses and adverse effects of Vinca alkaloids.
- 3D. Enumerate four macrolides. Explain their therapeutic uses.
- 3E. Enumerate four bisphosphonates. Explain the mechanism of action and uses of bisphosphonates.
- 3F. Explain the measures to minimize HPA axis suppression.
- 3G. Name two selective estrogen receptor modulators (SERM). Explain their uses and adverse effects.
- 3H. Explain the mechanism of action and adverse effects of insulin.
- 3I. Write briefly on Non- Benzodiazepine hypnotics.
- 3J. Explain the pharmacological actions, uses, and adverse effects of lithium.
- 3K. Enumerate four cognitive enhancers. Explain the mechanism of action and adverse effects of any one.
- 3L. Explain the pharmacological actions of morphine on the central nervous system.
- 3M. Name two GnRH analogues. Explain the mechanism of action and uses of any one.
- 3N. Enumerate four first line drugs used for the treatment of tuberculosis. Explain the basis for the use of multidrug therapy.
- 3O. Explain the management of status epilepticus.

(4 marks × 15 = 60 marks)

