

## MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND MBBS DEGREE EXAMINATION – NOVEMBER/DECEMBER 2019

SUBJECT: PHARMACOLOGY – PAPER I (ESSAY)

Monday, December 02, 2019

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

☞ Answer ALL the questions.

1. Define biotransformation. Explain in detail the phases of biotransformation. Describe the effects of drugs on hepatic microsomal enzymes and its clinical importance.

(1+5+2+2 = 10 marks)

2. Describe the pharmacological actions of atropine. Explain the rationale for its use in organophosphate poisoning and mention its dose, route of administration. Add a note on atropine substitutes used in the eye.

(5+2+1+2 = 10 marks)

3. Answer the following:

- 3A. Write briefly on second generation antihistaminics.
- 3B. Mention the uses and adverse effects of metoclopramide. What is the advantage of domperidone over metoclopramide?
- 3C. Mention two parenteral iron preparations and two indications for their use. What are the precautions to be taken during their use?
- 3D. Describe the mechanism of action and adverse effects of any two bronchodilators belonging to different groups useful in bronchial asthma.
- 3E. Mention two drugs belonging to different groups useful in the management of acute migraine. Describe the mechanism of action and mention the adverse effects of any one of them.
- 3F. Write briefly on *Helicobacter pylori* eradication therapy.
- 3G. Enumerate the differences between heparin and warfarin.
- 3H. Write briefly on spironolactone.
- 3I. Describe any four factors that modify drug action with suitable examples.
- 3J. Mention two uses of angiotensin converting enzyme inhibitors with the rationale. Mention two adverse effects of them.
- 3K. Explain the mechanism of action and uses of non-depolarizing skeletal muscle relaxants.
- 3L. Classify the drugs used in the treatment of angina pectoris with suitable examples.
- 3M. Describe the management of digoxin toxicity.
- 3N. Explain the terms 'randomization' and 'blinding' with respect to clinical trials.
- 3O. Mention the general effects of alpha blockers. Name two alpha blockers and two therapeutic indications.

(4 marks × 15 = 60 marks)



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## MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND MBBS DEGREE EXAMINATION – NOVEMBER/DECEMBER 2019

SUBJECT: PHARMACOLOGY – PAPER II (ESSAY)

Tuesday, December 03, 2019

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ Answer ALL the questions.

1A. Classify anti fungal drugs with examples.

1B. Explain the mechanism of action, uses and adverse effects of azole antifungal agents.

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

2A. Classify general anaesthetics.

2B. Explain objectives of pre anaesthetic medication with examples.

2C. Mention complications of general anaesthesia.

(4+4+2 = 10 marks)

3. Answer the following:

3A. Define chemoprophylaxis and explain with examples.

3B. Write briefly on bupivacaine.

3C. Name four anti-depressants. Write briefly on the mechanism of action and adverse effects of any one.

3D. Classify glucocorticoids based on their potency and duration of action. Explain two long term complications.

3E. Explain the mechanism of action, uses and adverse effects of chloroquine.

3F. Classify oral anti-diabetic drugs and write mechanism of any one drug.

3G. Write briefly on radioactive iodine.

3H. Mention four aminoglycosides, explain the mechanism action and adverse effects of any one.

3I. Enumerate anti-amebic drugs and explain the mechanism action and adverse effects any one.

3J. Write the mechanism of action, adverse effects and uses of valproic acid.

3K. Enumerate first line anti tubercular drugs. Add a note on DOTS.

3L. Write briefly on combined oral contraceptive pills.

3M. Explain the mechanism of action, uses and adverse effects of methotrexate.

3N. List antiparkinsonian drugs. Name two drugs which cause parkinsonism.

3O. Write briefly on selective estrogen receptor modulator (SERM).

(4 marks × 15 = 60 marks)

