

MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION – NOV/DEC 2015

SUBJECT: PHARMACOLOGY – PAPER I (ESSAY)

Monday, November 30, 2015

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

- 1A. Classify adrenergic drugs based on the therapeutic utility.
- 1B. Explain the actions of adrenaline on cardiovascular system.
- 1C. Explain the management of anaphylactic shock.

(5+3+2 = 10 marks)

- 2A. Classify antihypertensive drugs.
- 2B. Mention any two combination therapy used in hypertension with their basis.
- 2C. Explain the management of hypertensive emergency.

(4+4+2 = 10 marks)

3. **Answer the following:**

- 3A. Explain four methods to prolong the duration of action of a drug.
- 3B. Explain four uses of atropine substitutes with a preferred agent in each.
- 3C. Write briefly on mannitol.
- 3D. Explain the mechanism of action, uses and adverse effects of nitroglycerine.
- 3E. Explain the various types of drug antagonism.
- 3F. List the glucocorticoids used in bronchial asthma. Mention the advantages and disadvantages of inhalation steroids.
- 3G. Explain four uses of prostaglandin analogues.
- 3H. Explain three uses and adverse effects of d-penicillamine.
- 3I. Write briefly on parenteral iron preparations.
- 3J. Write briefly on streptokinase.
- 3K. Explain the mechanism of action and uses of Ondansetron.
- 3L. Explain the mechanism of action and adverse effects of stool softeners.
- 3M. Write briefly on Phase I clinical trial.
- 3N. Write briefly on drug tolerance.
- 3O. Explain two uses of anticholinesterases with basis.

(4 marks × 15 = 60 marks)



MANIPAL UNIVERSITY**SECOND MBBS DEGREE EXAMINATION – NOV/DEC 2015****SUBJECT: PHARMACOLOGY – PAPER II (ESSAY)**

Tuesday, December 01, 2015

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

1. Classify semisynthetic penicillins with suitable examples. Outline the mechanism of action of penicillins. Explain the advantages and disadvantages of combining penicillins with aminoglycosides.

(4+3+3 = 10 marks)

2. Classify the drugs used for parkinsonism with suitable examples. Mention the advantages of one drug combination used for the same. Mention four drug-induced extra pyramidal adverse effects and briefly explain their management.

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

3. **Answer the following:**

3A. Classify antifungal drugs with suitable examples.

3B. Write briefly on antimicrobial drug resistance.

3C. Write briefly on multidrug therapy of multibacillary leprosy and explain the mechanism of action of the drugs used in brief.

3D. Write briefly on chloroquine.

3E. Enumerate three groups of antiretroviral drugs with suitable examples. Write briefly on post exposure prophylaxis of HIV infection.

3F. Explain two advantages and two disadvantages of thiopentone sodium as a general anaesthetic.

3G. Compare and contrast: Aspirin and Paracetamol

3H. Explain four differences between diazepam and phenobarbitone.

3I. Explain the advantages of selective serotonin reuptake inhibitors over the tricyclic antidepressants and enlist two examples for each class.

3J. Mention two opioid agonists and antagonists. Outline the treatment of opioid dependence.

3K. Write briefly on oxytocics.

3L. Mention two indications and two contraindications for the use of corticosteroids. Why should we not stop the corticosteroids abruptly after prolonged use?

3M. Explain the mechanism of action, uses and adverse effects of bisphosphonates. Give two examples.

3N. Classify the oral hypoglycaemic drugs with suitable examples.

3O. Write briefly on selective estrogen receptor modulators with examples.

(4 marks × 15 = 60 marks)

