

MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION – MAY 2015

SUBJECT: PHARMACOLOGY – PAPER I (ESSAY)

Monday, May 11, 2015

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

- 1A. Define drug antagonism and explain various types of drug antagonism.
1B. Write the consequences of microsomal enzyme induction and inhibition with suitable examples.

((1+4)+5 = 10 marks)

- 2A. Mention three groups of drugs used to treat glaucoma with an example for each and explain mechanism of action of each group.
2B. Explain four uses of α blockers.

(3+3+4 = 10 marks)

3. **Answer the following:**

- 3A. Write briefly on dihydropyridines.
3B. Classify drugs used in angina pectoris.
3C. Write briefly on clonidine.
3D. Explain the mechanism of action and adverse effects of antitussives.
3E. Write briefly on parenteral iron preparations.
3F. Mention two in-vitro and two in-vivo anticoagulants and write advantages of low molecular weight heparin over heparin.
3G. Explain mechanism of action, uses and adverse effects of metoclopramide.
3H. Classify laxatives with examples.
3I. Explain four uses of prostaglandin analogues.
3J. Mention two drugs of different groups used in acute migraine and explain the basis for using them.
3K. Explain age and route as a factor modifying drug action.
3L. Write briefly on inhalational steroids used in bronchial asthma.
3M. Explain one beneficial and one harmful antihypertensive drug combination.
3N. Explain mechanism of action, uses and adverse effects of succinylcholine.
3O. Write briefly on desferrioxamine.

(4 marks \times 15 = 60 marks)



MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION – MAY 2015

SUBJECT: PHARMACOLOGY – PAPER II (ESSAY)

Tuesday, May 12, 2015

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

☞ Answer ALL the questions.

1. Classify antimicrobial agents according to the mechanism of action with suitable examples. Explain super infection with examples. Briefly discuss the objectives of using antimicrobial combinations.
(5+2+3 = 10 marks)
2. Explain briefly various techniques of local anesthesia. Explain the method to prolong local anesthetic action and its complications.
(5+1+4 = 10 marks)
3. Answer the following:
 - 3A. Discuss the aims of preanaesthetic medication with examples.
 - 3B. Explain the advantages of benzodiazepines over barbiturates.
 - 3C. Discuss the drug therapy of status epilepticus.
 - 3D. Explain the extrapyramidal disturbances associated with antipsychotic agents.
 - 3E. Explain the advantages and disadvantages with selective cyclooxygenase-2 inhibitors.
 - 3F. With the help of a neat diagram indicate the steps involved in the synthesis of thyroid hormones.
 - 3G. Enumerate four preparations and four adverse reactions to insulin.
 - 3H. Classify glucocorticoids with examples according to duration of action and relative mineralocorticoid potencies.
 - 3I. Explain how plasma level of calcium is regulated with the help of a diagram.
 - 3J. Mention the drugs used to induce labor and their complications.
 - 3K. Briefly discuss the shortcomings of penicillin G.
 - 3L. Classify cephalosporins with two examples for each class.
 - 3M. Mention four toxicities associated with anticancer agents and how each of them can be ameliorated.
 - 3N. Mention four adverse effects and four uses of metronidazole.
 - 3O. Classify antifungal drugs with examples. Mention four uses of these agents.
(4 marks × 15 = 60 marks)

