

MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION – MAY 2017

SUBJECT: PHARMACOLOGY – PAPER I (ESSAY)

Monday, May 08, 2017

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ Answer ALL the questions.

- 1A. Explain the various biotransformation reactions with examples.
1B. Explain three factors affecting biotransformation.
1C. Explain enzyme induction and give its clinical implications.

(4+3+3 = 10 marks)

- 2A. Classify atropine substitutes based on their therapeutic use.
2B. Mention two conditions where atropine is the preferred drug and explain the rationale for its use in them.
2C. Explain succinylcholine apnoea.

(4+4+2 = 10 marks)

3. Answer the following:

- 3A. Write briefly on fibrinolytics.
3B. Compare and contrast liquid paraffin and bisacodyl.
3C. Mention any two groups of bronchodilators with examples. Mention the mechanism of action of each group.
3D. Mention four uses of propranolol and explain the rationale for the same.
3E. Write briefly on leukotriene antagonists.
3F. Explain four methods to prolong the duration of drug action.
3G. Write two advantages and two disadvantages of rectal and sublingual routes of drug administration.
3H. Write the indications and contraindications for mannitol.
3I. Explain the factors modifying iron absorption.
3J. Explain the mechanism of action and uses of enalapril.
3K. Explain any two uses of nitrates with rationale.
3L. Mention four prostaglandin analogs and write one use for each.
3M. Mention two parenteral anticoagulants. Write three uses with pharmacological basis for any one anticoagulant.
3N. Enumerate four anticholinesterases with an indication for each.
3O. Write briefly on dimercaprol.

(4 marks × 15 = 60 marks)



MANIPAL UNIVERSITY**SECOND MBBS DEGREE EXAMINATION – MAY 2017****SUBJECT: PHARMACOLOGY – PAPER II (ESSAY)**

Tuesday, May 09, 2017

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

1. Explain two types of methods of female hormonal contraception with suitable examples. Explain the adverse effects and beneficial effects of any of them. Add a note on centchroman.
(4+2+2+2 = 10 marks)
2. Enumerate the first line antitubercular drugs. Discuss the treatment of two categories of tuberculosis as per the revised national tuberculosis control program. What is the role of corticosteroids in tuberculosis?
(2+6+2 = 10 marks)
3. **Answer the following:**
 - 3A. Classify cephalosporins with a suitable example.
 - 3B. Explain two adverse effects of aminoglycoside antibiotics. Enumerate two uses of the same.
 - 3C. Write briefly on methotrexate.
 - 3D. Mention four therapeutic uses, two adverse effects and two alternatives to metronidazole in any one use.
 - 3E. Write briefly on dipeptidyl peptidase inhibitors.
 - 3F. Compare and contrast: erythromycin and azithromycin.
 - 3G. Classify four classes of thyroid inhibitors based on the mechanism of action with suitable example.
 - 3H. Write briefly on tocolytics.
 - 3I. Enumerate four opioid analgesics. Mention two actions of opioids to which tolerance does not develop. Name two opioid antagonists.
 - 3J. Why ethanol is used in methyl alcohol poisoning? Mention four other uses of ethanol.
 - 3K. Enumerate six general anaesthetics. Mention one drug used for induction and one drug for maintenance of general anaesthesia.
 - 3L. Compare and contrast: imipramine and citalopram.
 - 3M. Explain four techniques of local anaesthesia.
 - 3N. Enumerate groups of drugs affecting brain dopaminergic system with suitable examples.
 - 3O. Write briefly on non-benzodiazepine hypnotics.
(4 marks × 15 = 60 marks)

