MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION - MAY 2009

SUBJECT: PHARMACOLOGY - PAPER I (ESSAY)

Monday, May 11, 2009

Time: 10.30 - 13.00 Hrs.

Maximum Marks: 60

1. Classify beta adrenergic blockers. Explain four therapeutic uses of propranolol with the basis for each use and add a note on drug interaction between propranolol and insulin.

(3+4+1 = 8 marks)

2. Define biotransformation. Discuss the various biotransformation reactions with suitable examples. Add a note on enzyme induction and its clinical implications.

(1+3+3 = 7 marks)

- 3. Write briefly on:
- 3A. Mechanism of action, uses and adverse effects of ramipril.
- 3B. Cycloplegic mydriatics.
- 3C. Fixed dose combinations.

 $(5\times3 = 15 \text{ marks})$

- 4. Explain the pharmacological basis for the following:
- 4A. Mannitol in acute congestive glaucoma.
- 4B. Low dose aspirin in myocardial infarction.
- 4C. Sodium cromoglycate in asthma.
- 4D. Folic acid alone should not be used in pernicious anemia.
- 4E. Lactulose in hepatic coma.

 $(2 \times 5 = 10 \text{ marks})$

- 5. Explain the following:
- 5A. Mechanism of action and adverse effects of lovastatin.
- 5B. How cetirizine differs from promethazine?
- 5C. Postmarketing surveillance.
- 5D. Mechanism of action of domperidone.
- 5E. Mechanism of action and adverse effects of sumatriptan.

 $(2 \times 5 = 10 \text{ marks})$

- 6. Answer the following:
- 6A. Explain the drug interaction between salbutamol and theophylline.
- 6B. Mention four differences between heparin and warfarin.
- 6C. Mention the therapeutic uses of furosemide.
- 6D. Write the mechanism of action of urokinase and mention its uses.
- 6E. Mention two mucolytics and explain the mechanism of action of any one.

 $(2 \times 5 = 10 \text{ marks})$



MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION – MAY 2009

SUBJECT: PHARMACOLOGY - PAPER II (ESSAY)

Tuesday, May 12, 2009

Time: 10.30 - 13.00 Hrs.

Maximum Marks: 60

1. Classify semisynthetic penicillins. Explain the mechanism of action, therapeutic uses and adverse effects of penicillin G.

(3+2+2+1 = 8 marks)

2. Classify glucocorticoids. Explain the metabolic actions of glucocorticoids.

(3+4 = 7 marks)

- 3. Write briefly on:
- 3A. Preanaesthetic medication.
- 3B. Methotrexate.
- 3C. Mechanism of action, uses and adverse effects of paracetamol.

 $(5 \times 3 = 15 \text{ marks})$

- 4. Explain the following:
- 4A. Mechanism of action of sulfonylureas.
- 4B. Drug interaction between lithium and furosemide.
- 4C. Mechanism of action and adverse effects of clomiphene citrate.
- 4D. Drug treatment of status epilepticus.
- 4E. Treatment of plasmodium vivax malaria.

 $(2\times5 = 10 \text{ marks})$

- 5. Answer the following:
- 5A. What is sequential blockade? Explain with an example.
- 5B. What is DOTS? Explain.
- 5C. Mention the advantages of azithromycin over erythromycin.
- 5D. Mention four drugs used in anaerobic infections.
- 5E. Explain emergency contraception.

 $(2 \times 5 = 10 \text{ marks})$

- 6. Answer the following:
- 6A. Write the drug treatment of chronic alcoholism.
- 6B. What is cheese reaction? Explain.
- 6C. Explain the basis for the combination of halothane with nitrous oxide.
- 6D. Mention four topical agents used in dermatophytic infections.
- 6E. Mention two bisphosphonates and write two uses of them.

 $(2 \times 5 = 10 \text{ marks})$