Reg. No.

MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION - MAY 2008

SUBJECT: PHARMACOLOGY - I (ESSAY)

Thursday, May 08, 2008

Time available: 10.30 - 13.00 Hours

Maximum Marks: 60

- Draw diagrams and flow charts wherever appropriate.
- Answer ALL questions.
- 1. Explain the actions of atropine on the eye and CNS. Explain the therapeutic uses of atropine substitutes.

(2+2+4 = 8 marks)

2. Classify antihypertensive drugs. Explain the mechanism of action, uses and adverse effects of clonidine.

(2+1+2+2=7 marks)

- 3. Write briefly on:
- 3A. Therapeutic uses and adverse effects of digoxin.
- 3B. Drugs used by inhalation in bronchial asthma.
- 3C. Proton pump inhibitors.

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

Answer the following:

- 4A. Mechanism of action and uses of fibrinolytics.
- 4B. Enumerate the differences between warfarin and heparin.
- 4C. Mention two parenteral iron preparations and their adverse effects.
- 4D. Mention the advantages of antacid combinations with examples.
- 4E. Name two second generation antihistamines and two uses of them.

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

- 5A. Mention two 5-HT antagonists with their use. Explain the basis for any one use.
- 5B. Mention two uses and two adverse effects of d-penicillamine.
- 5C. Explain the rationale for the use of frusemide in acute left ventricular failure.
- 5D. Explain dilutional hyponatremia and its management.
- 5E. Explain drug interaction between atorvastatin and ezetimibe.

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

- 6A. Mention a therapeutic use of nimodipine with rationale for the use.
- 6B. Mention two drugs used in myasthenia gravis with rationale for their use.
- 6C. Mention the differences between d-tubocurarine and succinylcholine.
- 6D. Mention two methods to prolong the duration of action of a drug given parenterally with examples.
- 6E. Explain tachyphylaxis with its clinical importance.



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MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION - MAY 2008

SUBJECT: PHARMACOLOGY - II (ESSAY)

Friday, May 09, 2008

Time available: 10.30 – 13.00 Hours

Maximum Marks: 60

- Answer ALL questions.
- ✓ Draw diagrams and flow charts wherever appropriate.
- 1. Classify antiepileptic agents with examples. Explain the mechanism of action and adverse effects of phenytoin sodium.

(4+2+2 = 8 marks)

2. Enumerate various groups of antimalarials with example for each group. Enlist four uses and four adverse effects of chloroquine.

(3+2+2 = 7 marks)

- 3. Write briefly on:
- 3A. Dissociative anaesthesia.
- 3B. Antipsuedomonal penicillins.
- 3C. Management of thyrotoxicosis.

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

- 4. Answer the following:
- 4A. Enumerate two antimetabolites belonging to different groups. Explain the mechanism of action of any one agent.
- 4B. Enumerate two immunosuppressants. Explain the mechanism of action of anyone.
- 4C. Mention four techniques (routes) used for local anaesthetics.
- 4D. Write briefly on uricosuric agents.
- 4E. Explain the rationale for using morphine in acute myocardial infarction.

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

- 5. Answer the following:
- 5A. Explain the basis for short duration of action following intravenous thiopentone sodium.
- 5B. Write briefly on drug induced Parkinsonism.
- 5C. Classify insulin preparations based on onset and duration of action with example for each group.
- 5D. Explain why glucocorticoids should not be stopped abruptly after long term use.
- 5E. Explain two methods of hormonal contraception.

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

- 6. Answer the following:
- 6A. Enlist four drugs used in lepra reaction.
- 6B. Enlist four therapeutic uses of rifampicin.
- 6C. Explain one drug interaction for zidovudine.
- 6D. Mention two preparations and two adverse effects of alkylating agents.
- 6E. Explain the precautions for intravenous use of amphotericin B.



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SECOND MBBS DEGREE EXAMINATION - NOV/DEC 2008

SUBJECT: PHARMACOLOGY - I (ESSAY)

Monday, December 01, 2008

Time available: 10.30 - 13.00 Hours

Maximum Marks: 60

- 1A. Explain synthetic reactions of biotransformation with suitable examples.
- 1B. Write the clinical significance of hepatic microsomal enzyme system.

(4+4 = 8 marks)

- 2A. Classify adrenergic agonists based on their mechanism of action with examples.
- 2B. Write briefly on nasal decongestants.

(4+3 = 7 marks)

- 3. Write briefly on the following:
- 3A. Name TWO centrally acting antihypertensives and explain the mechanism and adverse effects of them.
- 3B. Mention any THREE group of drugs with example used in bronchial asthma and explain the mechanism of action of any ONE group.
- 3C. Enumerate THREE groups of drugs with example used in peptic ulcer and add a note on the management of H.pylori.

(5+(3+2)+(3+2) = 15 marks)

- Explain:
- 4A. Mechanism of action of nitrates.
- 4B. Drug interaction between enalapril and frusemide.
- 4C. Basis for use of Timolol in glaucoma.
- 4D. "Prodrug" with an example.
- 4E. Basis for use of streptokinase in acute myocardial infarction.

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

- 5. Mention:
- 5A. TWO parenteral iron preparations with TWO side effects.
- 5B. TWO prostaglandin analogues with one specific use for each.
- 5C. TWO advantages of Enoxaparin over heparin.
- 5D. The indication of Desferrioxamine with the basis.
- 5E. ONE indication of glycopyrrolate with the basis.

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

- 6. Answer the following:
- 6A. Explain post-marketing surveillance.
- 6B. Explain why hydrochlorothiazide is preferred over frusemide in mild hypertension.
- 6C. Explain the mechanism of action of adenosine with its use.
- 6D. Why neostigmine is preferred over physostigmine in myasthenia gravis?
- 6E. Explain the rationale for combining ezitimibe with atorvastatin.

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MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION - NOV/DEC 2008

SUBJECT: PHARMACOLOGY - II (ESSAY)

Tuesday, December 02, 2008

Time available: 10.30 - 13.00 Hours

Maximum Marks: 60

1. Classify cephalosporins. List the therapeutic uses and adverse effects of third generation cephalosporins.

(4+2+2 = 8 marks)

2. Mention **three** groups of nonsteroidal antiinflammatory drugs with **two** examples for each group. Explain the therapeutic uses and adverse effects of any one of them.

(3+2+2 = 7 marks)

- 3. Write briefly on:
- 3A. Selective estrogen receptor modulators.
- 3B. Methotrexate.
- 3C. Mechanism of action, uses and adverse effects of diazepam.

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

- 4. Giving an indication, explain the pharmacological basis / mechanism of action for the following.
- 4A. Methylergometrine.
- 4B. Sulfacetamide
- 4C. Carbamazepine.
- 4D. Disulfiram.
- 4E. Lignocaine.

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

- 5. Answer the following:
- 5A. Explain the drug interaction between zidovudine and paracetamol.
- 5B. Write briefly on emergency contraception.
- 5C. Mention four drugs used in oral candidiasis.
- 5D. Mention the therapeutic uses of chloroquine.
- 5E. Name two bisphosphonates and mention two uses of them.

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

- 6. Explain the basis for the following:
- 6A. Combination of levodopa and carbidopa.
- 6B. Combination of amphotericin B and flucytosine.
- 6C. Tetracyclines are contraindicated in pregnancy.
- 6D. Multidrug therapy is used in tuberculosis.
- 6E. Glibenclamide is not effective in Type 1 diabetes mellitus.