

MANIPAL UNIVERSITY
SECOND MBBS DEGREE EXAMINATION – NOV/DEC 2010
SUBJECT: PHARMACOLOGY - PAPER I (ESSAY)

Monday, November 29, 2010

Time: 10:30 – 13:00 Hrs.

Maximum Marks: 60

✍ **Answer ALL questions. Draw diagrams and flow charts wherever appropriate.**

1. Classify antihypertensive drugs with suitable examples. Draw a neat diagram indicating the sites of action of various antihypertensives. Add a note on the pharmacotherapy of hypertensive emergency.
(4+2+2 = 8 marks)
2. Enumerate four classes of drugs used in bronchial asthma by inhalational route with suitable examples. Write the mechanism of any one of them. Explain the method of using a metered dose inhaler.
(4+1+2 = 7 marks)
3. **Answer the following:**
 - 3A. Explain five factors that modify drug action.
 - 3B. Mention two anticoagulants. Explain the mechanism of action of any one of them. How will you monitor anticoagulant therapy?
 - 3C. How will you treat a case of organophosphorus poisoning that presents to the casualty?
(5+(1+2+2)+5 = 15 marks)
4. **Answer the following:**
 - 4A. Mention two indications for frusemide. Write the pharmacological basis for any one of them.
 - 4B. Mention the pharmacological basis for the use of ACE inhibitors in congestive cardiac failure.
 - 4C. Why do you prefer tropicamide over atropine as a mydriatic while testing refractive error of the eye?
 - 4D. Write two advantages and two disadvantages of sublingual route of drug administration.
 - 4E. Define the terms potency and efficacy.
(2×5 = 10 marks)
5. **Answer the following:**
 - 5A. Mention two drugs used in myasthenia gravis. How do you differentiate myasthenic and cholinergic crises?
 - 5B. Name two vasopressors. Mention the vasopressor of choice in cardiogenic shock along with route of administration.
 - 5C. What are the constituents of the “triple drug regimen” used for acid peptic disease? What is the duration of therapy with this regimen in acid peptic disease?
 - 5D. Mention two antiemetic drugs that act by different mechanisms. Give one indication for each.
 - 5E. Explain the drug interactions with clinical implication between adrenaline and lignocaine.
(2×5 = 10 marks)
6. **Answer the following:**
 - 6A. Explain the pharmacological basis for the use of lactulose in hepatic encephalopathy.
 - 6B. Why calcium disodium edetate and not disodium edetate is used in lead poisoning?
 - 6C. What are the constituents of oral rehydration salts?
 - 6D. Explain the term “volume of distribution” with clinical implication.
 - 6E. Write briefly on “therapeutic drug monitoring”.
(2×5 = 10 marks)



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SUBJECT: PHARMACOLOGY - PAPER II (ESSAY)

Tuesday, November 30, 2010

Time: 10:30 – 13:00 Hrs.

Maximum Marks: 60

✍ **Answer ALL questions.**

✍ **Draw diagrams and flow charts wherever appropriate.**

1. Classify inhalational general anaesthetics with examples. Explain the advantages and disadvantages of halothane. Add a note on preanaesthetic medication.

(2+2+2+2 = 8 marks)

2. Classify antiamoebic drugs with examples. Add a note on mechanism of action, uses and adverse effects of metronidazole.

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

3. **Write short notes on:**

3A. Antimetabolites.

3B. Preparations of insulin.

3C. Lithium carbonate.

(5×3 = 15 marks)

4. **Answer the following:**

4A. Why propranolol should not be given to a diabetic on insulin therapy?

4B. Enumerate four anabolic steroids.

4C. Write briefly on short course regimen for the treatment of primary pulmonary tuberculosis.

4D. Enumerate two nucleoside reverse transcriptase inhibitors. Mention two adverse effects.

4E. Name two selective estrogen receptor modulators. Mention two uses.

(2×5 = 10 marks)

5. **Answer the following:**

5A. Mention four non-hormonal uses of glucocorticoids.

5B. What is lepra reaction? Mention the drugs used in the treatment of lepra reaction.

5C. Enlist four anticancer antibiotics.

5D. Write the mechanism of action and two adverse effects of aminoglycosides.

5E. Outline the drug management of opioid dependence.

(2×5 = 10 marks)

6. **Answer the following:**

6A. Write the mechanism of action of cyclosporine.

6B. Explain two differences between diazepam and buspirone.

6C. What are the advantages of atypical antipsychotics over haloperidol?

6D. Explain two differences between lignocaine and procaine.

6E. Mention four uses of sodium valproate.

(2×5 = 10 marks)



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(2+2+2+2 = 8 marks)

2. Classify antimicrobial drugs with examples. Add a note on mechanism of action, uses and adverse effects of metronidazole.

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

3. **Write short notes on:**

3A. Antimetabolites.

3B. Preparations of insulin.

3C. Lithium carbonate.

(5×3 = 15 marks)

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