

MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION – MAY 2010

SUBJECT: PHARMACOLOGY – PAPER I (ESSAY)

Monday, May 10, 2010

Time: 10:30 – 13:00 Hrs.

Maximum Marks: 60

1. Explain the pharmacological basis and clinical relevance of different groups of vasodilators used in ischemic heart disease. Explain the vasodilatation induced adverse effects of these drugs.
(6+2 = 8 marks)
2. Explain seven uses of β blockers.
(1×7 marks)
3. **Write Briefly on:**
 - 3A. Mechanism of Action
 - 3B. Clinical relevance of “Drug Distribution”
 - 3C. Lansoprazole(5×3 = 15 marks)
4. **Mention one use and explain the pharmacological basis for the following:**
 - 4A. Fluticasone
 - 4B. I.V. Atropine sulfate
 - 4C. Prazosin
 - 4D. Adenosine
 - 4E. Cinnarizine(2×5 = 10 marks)
5. **Mention two uses and two characteristic adverse effects of the following drugs:**
 - 5A. Iron-dextran injection
 - 5B. Spironolactone
 - 5C. Degraded gelatin polymer
 - 5D. Atorvastatin
 - 5E. Ramipril(2×5 = 10 marks)
6. **Answer the following:**
 - 6A. Define the purpose of “Phase I Clinical trial”.
 - 6B. Define the term “Drug induced disease” with two examples.
 - 6C. After major abdominal surgery, how to reverse skeletal muscle paralysis?
 - 6D. Why, Hydrochlorothiazide is preferred as antihypertensive in an elderly woman?
 - 6E. Explain one clinically hazardous drug interaction due to plasma protein displacement.(2×5 = 10 marks)



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SECOND MBBS DEGREE EXAMINATION – MAY 2010

SUBJECT: PHARMACOLOGY – PAPER II (ESSAY)

Tuesday, May 11, 2010

Time: 10:30 – 13:00 Hrs.

Maximum Marks: 60

1. Classify the drugs used in the treatment of fungal infections. Describe the mechanism of action, uses and adverse effects of any one.
(3+1+2+2 = 8 marks)
2. Classify opioid analgesics. Explain the actions of morphine on CNS. Explain the basis for the contraindication of morphine in head injury.
(3+3+1 = 7 marks)
3. **Write briefly on:**
 - 3A. Combined pill
 - 3B. Phenytoin sodium
 - 3C. Diethyl carbamazine citrate (DEC)(5×3 = 15 marks)
4. **Giving an indication explain the basis / mechanism for the use of:**
 - 4A. Glibenclamide
 - 4B. Methotrexate
 - 4C. Disulfiram
 - 4D. Amoxicillin with clavulanic acid
 - 4E. Metronidazole with Diloxanide furoate(2×5 = 10 marks)
5. **Explain the following:**
 - 5A. Measures to minimize HPA axis suppression
 - 5B. 'Short Course Chemotherapy' for uncomplicated pulmonary TB
 - 5C. General characteristics of aminoglycoside antibiotics
 - 5D. Complications of Spinal anaesthesia
 - 5E. Advantages and disadvantages of radioactive iodine(2×5 = 10 marks)
6. **Answer the following:**
 - 6A. Mention **two** newer macrolides and **one** specific indication for each.
 - 6B. Name the drug used in paracetamol poisoning with its basis.
 - 6C. Diazepam is preferred to Phenobarbitone for insomnia. Justify.
 - 6D. Mention **two** uses & **two** adverse effects of imipramine.
 - 6E. Define suprainfection. Name **two** drugs that cause it.(2×5 = 10 marks)

