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MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION – DECEMBER 2016

SUBJECT: PHARMACOLOGY – PAPER I (ESSAY)

Monday, December 26, 2016

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

Answer ALL the questions.

1. Explain the clinical features and treatment of acute organophosphate poisoning. Mention two reversible anticholinesterases and explain two uses of the same with rationale.

(2+4+1+3 = 10 marks)

2. Enumerate four drugs belonging to different groups used in the treatment of hypertension with pharmacological bases. Add a note on management of hypertensive emergency.

(6+4 = 10 marks)

3. **Write short notes on:**

3A. Explain the terms potency and efficacy using a log dose response curve. Add a note on therapeutic index.

3B. Write briefly on low molecular weight heparins.

3C. Mention two groups of drugs used in peptic ulcer with suitable examples. Add a note on triple drug regimen in peptic ulcer.

3D. Name four first generation antihistaminics. Enumerate two advantages of second generation antihistaminics over the first generation ones.

3E. Explain four routes of drug administration with suitable examples.

3F. Define bioavailability. Explain three factors that affect bioavailability.

3G. Write briefly on teratogenicity of drugs.

3H. Enumerate two beta blockers. Explain three therapeutic uses of any one of them with pharmacological basis.

3I. Classify drugs used in congestive heart failure with suitable examples.

3J. Explain four therapeutic uses of adrenaline.

3K. Write briefly on parenteral iron therapy.

3L. Classify laxatives with suitable examples.

3M. Mention four antagonists of 5-HT with one therapeutic use each.

3N. Write briefly on expectorants.

3O. How will you manage a case of severe acute asthma (status asthmaticus)?

(4 marks × 15 = 60 marks)



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MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION – DECEMBER 2016

SUBJECT: PHARMACOLOGY – PAPER II (ESSAY)

Tuesday, December 27, 2016

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

- 1A. Classify opioid analgesics. Explain the actions of morphine on central nervous system.
1B. Explain three therapeutically useful actions of aspirin.

((3+4)+3 = 10 marks)

- 2A. Explain three advantages of combined use of antimicrobial agents with an example for each.
2B. Enumerate four aminoglycosides. Mention four shared features of them.

(6+(2+2) = 10 marks)

3. **Write short notes on:**

- 3A. Write briefly on radioactive iodine.
3B. Explain the interaction between levodopa and carbidopa.
3C. Write the mechanism of action, uses and adverse effects of clomiphene citrate.
3D. Explain the mechanism of action and uses of sodium valproate.
3E. Explain four toxicities of anticancer drugs with methods to ameliorate them.
3F. Write briefly on insulin analogs.
3G. Explain the basis for the use of oxytocin for induction of labor. Mention its two adverse effects.
3H. Enumerate four antiretroviral drugs. Explain boosted protease inhibitor (PI) regimen.
3I. Mention four topical antifungal drugs. Mention four uses of them.
3J. Write short note on lithium carbonate.
3K. Mention four advantages of benzodiazepines over barbiturates as sedative-hypnotic.
3L. Write briefly on adverse effects of glucocorticoids.
3M. Write the mechanism of action of albendazole. Explain why it is preferred over praziquantel for neurocysticercosis.
3N. Explain four complications of spinal anesthesia.
3O. Write four differences between doxycycline and tetracycline.

(4 marks × 15 = 60 marks)

