

**MANIPAL UNIVERSITY****SECOND MBBS DEGREE EXAMINATION – MAY 2014****SUBJECT: PHARMACOLOGY – PAPER I (ESSAY)**

Thursday, May 08, 2014

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

**Answer ALL the questions.**

1. Explain the mechanism of action of four different classes of diuretics with suitable diagram. Write the diuretic of choice, route of administration and basis for its use in acute pulmonary edema.

(8+2 = 10 marks)

2. Enumerate any four parenteral routes of drug administration. Explain two advantages and two disadvantages for the same.

(2+8 = 10 marks)

**3. Answer the following.**

- 3A. Explain the different methods to prolong drug action with suitable examples.
- 3B. Mention four different groups of drugs with an example, used in open angle glaucoma. Write the pharmacological basis for the use of any two.
- 3C. Classify peripherally acting skeletal muscle relaxants with suitable examples. Mention the therapeutic uses of any one.
- 3D. Mention two orally and two topically used nasal decongestants. Explain the basis for their use as nasal decongestants.
- 3E. Describe briefly the advantages and uses of second generation antihistaminics.
- 3F. Enumerate commonly used statins. Describe their pharmacological action on lipid level and adverse effects on long term use.
- 3G. Which are the drugs used in triple drug regimen for *H. pylori* associated peptic ulcer? Write the frequency, duration of treatment and the rationale for the same.
- 3H. Name two inodilators used in the treatment of heart failure. Explain how spironolactone is useful for the treatment of heart failure.
- 3I. Mention two examples of antitussives. Explain the mechanism of action, clinical use and adverse effects of any one.
- 3J. Name two groups of drugs with suitable example used to terminate acute attack of bronchial asthma. What are the advantages of using metered dose inhaler?
- 3K. Write briefly on fixed dose combination.
- 3L. Discuss the mechanism of action and clinical uses of metoclopramide.
- 3M. Mention two low molecular weight heparins. How do they differ from unfractionated heparin?
- 3N. Write briefly on epoetin.
- 3O. Explain the rationale, preferred route of administration and dose of adrenaline in anaphylactic shock.

(4 marks×15 = 60 marks)



**MANIPAL UNIVERSITY****SECOND MBBS DEGREE EXAMINATION – MAY 2014****SUBJECT: PHARMACOLOGY – PAPER II (ESSAY)**

Friday, May 09, 2014

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

- 1A. Classify drugs used in the treatment of HIV infection.  
1B. Write briefly on co-trimoxazole.  
1C. Add a note on post exposure prophylaxis.

(3+4+3 = 10 marks)

- 2A. Classify local anesthetics depending on their duration of action and explain their mechanism of action.  
2B. Explain briefly the spinal anesthesia.

(5+5 = 10 marks)

3. **Answer the following.**

- 3A. Explain four factors that helps in selecting an antimicrobial agent  
3B. List the general properties of aminoglycosides  
3C. Explain the treatment of new smear positive pulmonary tuberculosis  
3D. Classify antifungal agents  
3E. Write briefly on artemisinin derivatives  
3F. Write briefly on folate antagonist in cancer chemotherapy  
3G. Enumerate four glucocorticoids and explain two beneficial actions of them  
3H. Classify insulin preparations  
3I. Write short notes injectable contraceptives  
3J. Explain the treatment of thyroid storm  
3K. Explain four uses of opioid analgesics  
3L. Write briefly on SSRIs  
3M. List four newer anti-epileptics and explain mechanism of action of any two  
3N. Explain four uses of benzodiazepines  
3O. Write briefly on thiopentone sodium

(4 marks×15 = 60 marks)

