Reg. No.										

MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION – MAY 2011

SUBJECT: PHARMACOLOGY – PAPER I (ESSAY)

Monday, May 09, 2011

Time: 10:30 – 13:00 Hrs. Maximum Marks: 60

1. Classify diuretics with examples. Explain the site and mechanism of action of thiazide diuretics. Mention their uses and adverse effects.

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

2. Enumerate any six antihypertensives which act by different mechanisms. Explain the antihypertensive effect of ACE inhibitors and mention their adverse effects.

(3+2+2 = 7 marks)

3. **Write briefly on:**

3A. Bioavailability.

3B. Proton pump inhibitors.

3C. Dopamine.

(5×3 = 15 marks)

4. **Write short answers:**

4A. Mention four therapeutic uses for prostaglandins.

4B. Bisacodyl- Mention one use, its mechanism of action and routes of administration.

4C. Mention four drugs that require therapeutic drug monitoring.

4D. First dose effect- define and mention its clinical significance.

4E. Explain- Use of glyceryl trinitrite in acute angina.

(2×5 = 10 marks)

5. **Explain the following:**

5A. Adrenaline is preferred in anaphylactic shock.

5B. The rationale of using metoclopramide in GERD.

5C. Ondansetron is used in antimalignant drug induced vomiting.

5D. Use of low dose aspirin in MI patient.

5E. Pyridostigmine is used in myasthenia gravis.

(2×5 = 10 marks)

6. **Short answers:**

6A. Mention differences between Streptokinase and Alteplase.

6B. Mention two uses for sodium cromoglycate and explain its mechanism of action.

6C. Timolol in glaucoma.

6D. Post Marketing Surveillance.

6E. Orphan drugs.

(2×5 = 10 marks)

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MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION – MAY 2011

SUBJECT: PHARMACOLOGY – PAPER II (ESSAY)

Tuesday, May 10, 2011

Time: 10:30 – 13:00 Hrs. Maximum Marks: 60

1A. Enumerate four group of drugs used in malaria with examples.
1B. Explain the terms causal prophylaxis and radical cure.
1C. Outline the management of cerebral malaria.

(4+2+2 = 8 marks)

2A. Classify opioid analgesic with examples.
2B. Explain the action of prototype opioid on central nervous system.
2C. Outline the management of aspirin poisoning.

(3+2+2 = 7 marks)

3A. List three groups of oral antidiabetic drugs with examples. Explain the mechanism of action of any one group.
3B. Write briefly on uses and adverse effects of metronidazole.
3C. List four drugs used in epilepsy and explain the mechanism of action and adverse effects of any one of them.

((3+2)+5+(2+2+1) = 15 marks)

4. **Mention:**
4A. Two general toxicities of anticancer drugs and methods to ameliorate them.
4B. The methods to minimize HPA axis suppression.
4C. Four advantages of benzodiazepines over barbiturates.
4D. Two topically and two systemically used drugs for oral candidiasis.
4E. Two uses and two adverse effects of lithium.

(2×5 = 10 marks)

5. **List FOUR differences between:**
5A. Imipramine and Fluoxitine
5B. Erythromycin and Azithromycin
5C. Propylthiouracil and carbimazole
5D. Tetracycline and Doxycycline
5E. Ampicillin and Amoxacillin

(2×5 = 10 marks)

6. **Answer the following:**
6A. Explain why carbidopa is combined with levodopa?
6B. Name two selective estrogen receptor modulators and mention two uses of them.
6C. Mention two synthetic glucocorticoids with two uses of any one of them.
6D. Explain why pyridoxine is combined with isoniazid?
6E. Explain the rationale of using disulfiram in alcoholism.

(2×5 = 10 marks)