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repeat



UNIVERSITY OF RUHUNA, FACULTY OF MEDICINE



THIRD EXAMINATION FOR MEDICAL DEGREE PART 11  
OCTOBER/ NOVEMBER 2013  
PHARMACOLOGY -PAPER 1

Time- 9.00 - 11.30 a.m.  
Duration- 2 ½ hours

Answer all 05 questions.

Use a separate answer book for each section.

Part A

1. Explain the pharmacological basis for the use of

- ✓ 1.1 omeprazole in peptic ulcer disease. (30 marks)
- ✓ 1.2 streptokinase in ST elevation myocardial infarction (STEMI). (40 marks)
- ✓ 1.3 salbutamol in bronchial asthma. (30 marks)

Part B

2.

02.06

2.1 Write the most suitable drug or group of drugs to control blood pressure in the following clinical situations.

- ✓ 2.1.1 A 62-year-old female with type II diabetes and diabetic nephropathy with a blood pressure of 160/100 mmHg. (10 marks)
- ✓ 2.1.2 A 60-year-old male with benign prostatic hyperplasia and a blood pressure of 166/104 mmHg. (10 marks)
- ✓ 2.1.3 A 36-year-old pregnant woman with albuminuria and a blood pressure of 150/96 mmHg. (10 marks)

✓ 2.2 Explain in brief the reason for your choice in each of the above clinical situations. (45 marks)

✓ 2.3 Describe in brief the pharmacological basis of using nitrate in stable angina. (25 marks)

### Part C

- 3.
- 3.1
- 3.1.1 ✓ List two intravenous drugs used to induce general anesthesia. (10 marks)
- 3.1.2 ✓ Explain the pharmacological basis of combining lignocaine with adrenaline in infiltrating local anesthesia. (30 marks)
- 3.2 ✓ List three drugs used as pre-anesthetic medication and explain the reasons for their use in pre-anesthesia (30 marks)
- 3.3 ✓ List the antipsychotic drug groups used in clinical practice. (20 marks)
- 3.4 ✓ Indicate the common adverse effects observed in each of the above drugs/ groups mentioned in 3.3. (10 marks)

### Part D

- 4.
- 4.1 ✓ Describe the mode of action of clomiphene. (15 marks)
- 4.2 ✓ Describe the precautions you would take and the advices you would give when prescribing oral contraceptive pills. (30 marks)
- 4.3 Describe
- 4.3.1 ✓ an inverse agonist. (15 marks)
- 4.3.2 ✓ the first pass metabolism. (20 marks)
- 4.3.3 biological half-life. (20 marks)

### Part E

5. A 64-year-old male with cirrhosis was admitted with haematemesis for 01 day duration. He was pale on admission and was haemodynamically unstable with pulse rate of 130/minutes and blood pressure of 90/62 mmHg.
- 5.1
- 5.1.1 ✓ Describe the pharmacological management of this patient over the next 48 hours. *Dopamine* (25 marks)
- 5.1.2 ✓ Describe the mode of action, side effects and route of administration of one of the drugs mentioned above. (15 marks)
- 5.2 He was found be confused and drowsy on the third of hospital admission. Hepatic encephalopathy was suspected as the most likely cause for his deterioration.
- 5.2.1 ✓ List 02 medications used in the treatment of hepatic encephalopathy. (10 marks)
- 5.2.2 ✓ Discuss the pharmacological basis of using one of the drug mentioned above. (25 marks)
- 5.2.3 ✓ Explain the basis for the use of spironolactone as a diuretic in chronic liver disease. (25 marks)

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