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UNIVERSITY OF RUHUNA - FACULTY OF MEDICINE
THIRD EXAMINATION FOR MEDICAL DEGREES PART 11- APRIL 2005
PHARMACOLOGY PAPER I

2 HOURS

5th April, 2005

Answer all FOUR questions

Answer EACH PART in a SEPARATE BOOK

PART A

1. 1.1 Describe how you would advise a female to take combined oral contraceptive pills. (30 marks)
- 1.2 Briefly explain the precautions and contraindications in using combined oral contraceptive pills. (30 marks)
- 1.3 List the different groups of lipid lowering drugs. (15 marks)
- 1.4 Mention the clinical indications and adverse effects of lipid lowering drugs you mentioned in 1.3 (25 marks)

PART B

2. A 53 year old man was admitted with progressive shortness of breath of two days duration. He gave a past history of anterior myocardial infarction two months ago. On admission he was dyspnoic and centrally cyanosed. His BP was 180/120 mmHg and there were bilateral basal crepitations and rhonchi. Heart was enlarged and a third heart sound was heard.
 - 2.1 List five drugs which are useful in the acute management of this patient. (30 marks)
 - 2.2 Mention two side effects of three drugs you mentioned in 2.1 (10 marks)
 - 2.3 Describe the pharmacological basis of using three of the drugs you mentioned in 2.1, in this patient: (60 marks)

PART C

3. Describe the pharmacological basis for the use of
 - 3.1 digoxin in atrial fibrillation (30 marks)
 - 3.2 omeprazole in peptic ulcer disease (40 marks)
 - 3.3 intravenous gentamicin in acute pyelonephritis (30 marks)

PART D

4. 4.1 Outline the different principles of drug treatment in neonates. (10 marks)
- 4.2 Name three drugs that should be avoided in neonates. (15 marks)
- 4.3 Briefly explain the mode of action of
 - 4.3.1. diazepam in status epilepticus (25 marks)
 - 4.3.2. lithium in manic depressive psychosis. (25 marks)
 - 4.3.3. carbimazole in thyrotoxicosis. (25 marks)

