



UNIVERSITY OF RUHUNA – FACULTY OF MEDICINE
ALLIED HEALTH SCIENCES DEGREE PROGRAMME
THIRD BPHARM PART II EXAMINATION – JUNE/JULY 2016
PH 3223 PHARMACOTHERAPEUTICS- (SEQ)

TIME: TWO HOURS

INSTRUCTIONS

- Answer **all** questions.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

1.
 - 1.1. Define osteoporosis. (10 marks)
 - 1.2. List the three modifiable and three non-modifiable risk factors for osteoporosis. (18 marks)
 - 1.3. Describe three complications of osteoporotic fractures. (30 marks)
 - 1.4. Describe the currently available treatments for osteoporosis. (42 marks)

2.
 - 2.1 Briefly explain the pathophysiology of epilepsy. (25 marks)
 - 2.2. A 20 year-old female university student was newly diagnosed with generalized tonic clonic epilepsy.
 - 2.2.1. Name two first-line drugs which can be used to treat her condition. (10 marks)
 - 2.2.2. Name two second-line drugs which can be used to treat her condition. (10 marks)
 - 2.2.3. Describe the important information that needs to be discussed regarding drug treatment and lifestyle changes before she is discharged from the ward? (55 marks)

3.
 - 3.1. Name four causes of secondary hypertension. (20 marks)
 - 3.2. Describe the non-pharmacological management advice you would give to a newly diagnosed patient with hypertension. (40 marks)
 - 3.3. Describe four complications of chronic uncontrolled hypertension. (40 marks)

4. A 29 year-old soldier, originally from Galle district has been working in Anuradhapura for last 2 months. He came to the outpatient department with a history of high fever with chills and rigors for last couple of days. He did not have any other complaints. Malaria infection was suspected. The diagnosis was confirmed by a blood film examination.
 - 4.1. Name the two causative agents of malaria in Sri Lanka. (10 marks)
 - 4.2. If there is no suspicion of drug resistance in the species seen in blood film, describe the anti-malarial drug treatment in this patient. (20 marks)
 - 4.3. Describe the mechanism of action of the drugs mentioned in 4.2. (15 marks)
 - 4.4. List side effects of the drugs given to this patient. (15 marks)
 - 4.5. Name the drugs used in the treatment of drug resistant malaria (complicated and uncomplicated). (25 marks)
 - 4.6. What advice will you give to this patient, when he returns to work after treatment for this episode? (15 marks)

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