



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2016/2017

SUPPLEMENTARY/SPECIAL EXAMINATION FOR THE DEGREE OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY (MBChB Level VI)

PIM: INTERNAL MEDICINE AND PSYCHIATRY-ESSAY QUESTIONS

DATE: Monday 26th February 2018

TIME: 2.00 p.m. – 5.00 p.m.

INSTRUCTIONS:

Answer all questions

Use a separate answer booklet for each question

QUESTION ONE

- a) A 34y-old lady presents with gum bleeding and easy fatigability. Her haemogram returns the following results (reference range in brackets): Hb 4.2g/dL (12-16g/dL), MCV 112fL (76-96fL), WBC count $1.4 \times 10^9/L$ ($4-11 \times 10^9/L$), Platelet count $18 \times 10^9/L$ ($150-450 \times 10^9/L$).
- i) List 2 possible causes of her haematological condition (2 marks)
 - ii) Outline 3 baseline investigations and 3 specific investigations you would request (6 marks)
- b) A 58y-old lady presents with a lump in the upper outer quadrant of her left breast.
- i) List four physical examination findings that will suggest breast cancer (2 marks)
 - ii) Outline three specific investigations you will carry out in her evaluation (6 marks)
 - iii) List two chemotherapeutic medications and their respective mechanism of action (4 marks)

QUESTION TWO

A 40 year old factory worker complains of cough, chest discomfort and breathlessness. He is a current smoker with 20 pack years smoking and is currently on treatment for hypertension.

- a) List two possible causes of cough under each of the following categories: (6 marks)
 - i. Acute (<2wks)
 - ii. Sub-Acute (2-8wks)
 - iii. Chronic (>8wks)
- b) During chest examination, the trachea is noted to be displaced, as is the apex beat. List 3 conditions that cause significant displacement of the mediastinum (3 marks)
- c) A chest radiograph is obtained. Outline any two features of the chest radiograph that would favor a pulmonary cause for his symptoms (as opposed to a cardiac cause)? (2 marks)
- d) List any 3 other tests that would rule out heart disease as a cause for his symptoms, and the expected findings (3 marks)
- e) The patient is keen on stopping smoking. Summarize your advice under the following headings. (6 marks)
 - i. Dangers of tobacco use
 - ii. Interventions to quit smoking
 - iii. Benefits & risks of tobacco cessation

QUESTION THREE

Use this clinical vignette to answer the questions that follow:

Mwale is a 35 year old male admitted into a medical ward with pneumonia. He has a history of alcohol use disorder. He has not used alcohol for two months since he got physically unwell. The reviewing physician concludes he has delirium. He reports that at one time his doctor administered electroconvulsive therapy, before switching on to lithium carbonate. He has a younger brother who suffers from schizophrenia.

- a) List three clinical signs and symptoms of delirium (3marks)
- b) Name the class of drugs of the medication of choice in this setting (delirium) indicating two common side effects associated with this class of drugs. (3 marks)

- c) Give one clinical indication of electroconvulsive therapy and one common complication (2 marks)
- d) What are the five common psychiatric co- morbidities associated with alcohol use disorders (5 marks)
- e) What are the available treatment modalities for patients suffering from schizophrenia? (5 marks)
- f) What was the likely therapeutic indication for lithium carbonate? List two signs of lithium toxicity? (2 marks)

QUESTION FOUR

- a) Outline the treatment and monitoring of a 20years old male confirmed to have cerebral malaria. (10marks)
- b) A 70year old female with well controlled hypertension presents with progressive inability to feed herself, confusion and fever over the last 2 weeks , she is now bed ridden. On examination GCS was 14/15, neck was soft. Investigation reveal raised white cells above 15×10^9 and urine had pus cell++
 - i) List four most likely differential diagnosis in order of most probable (2marks).
 - ii) Define severe sepsis (2marks)
 - iii) List six early directed therapy goals in the management of severe sepsis (6marks)

QUESTION FIVE

- a) Outline the main clinical manifestations of Grave's disease (5 Marks)
- b) Outline clinical manifestations of rheumatoid arthritis (4 marks)
- c) Outline causes of acute renal failure (6 Marks)
- d) Outline treatment of uncompleted urinary tract infection in a 27 year old non-pregnant woman. (5 Marks)