

MASENO UNIVERSITY **UNIVERSITY EXAMINATIONS 2013/2014**

THIRD YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR SCIENCE (MEDICAL LABORATORY SCIENCE) WITH INFORMATION TECHNOLOGY

(MAIN CAMPUS)

PMT 326: GENERAL PATHOLOGY AND PATHOPHYSIOLOGY

Date: 21st July 2014

Time: 11.00 - 1.00 pm

INSTRUCTIONS:

MASENO UNIVERSITY

ISO 9001:2008 CERTIFIED



SECTION A

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Answer ALL Questions (40 marks)

- 1. Differentiate between the terms "pathogenesis" and "virulence" (4 marks)
- 2. How-do micro-organism cause disease? (4 marks)
- 3. Briefly explain how micro-organisms evade host defenses (4 marks)
- 4. What are the underlying mechanisms in the aetiology of asthma? (6 marks)
- 5. Differentiate between "encephalomalacia" and "encephalitis" (4 marks)
- 6. What are "free radicals" and how are they involved in apoptosis (6 marks)
- 7. What is "sickle cell anemia" and how does it arise? (6 marks)
- 8. Briefly explain the pathogenesis of "Goitre" (6 marks)

SECTION B (30 marks

Answer Question 11 and Either Question 12 OR Question 13

- 11. Discuss the role of the following in hypertension (High blood pressure) (16 marks)
 - a) High extracellular fluid volume
 - b) High levels of dietary salt
 - c) Obesity
 - d) The Renin- Angiotensin system
- 12. Discuss the role of Vitamin D, Parathyroid hormone and Calcitonin in bone metabolism and how rickets or osteomalacia occur (14 marks)

OR

- 13. Discuss the following; (14 marks)
 - a) Mechanisms involved in uncontrolled cell proliferation
 - b) The genesis of a cancer cell
 - c) General principles in the action of cytotoxic anticancer drugs