

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF MASTER OF  
SCIENCE IN NURSING

NUMS 825: ADVANCED PATHOPHYSIOLOGY II

STREAMS: MSC (NURSING) Y1T3

TIME: 3 HOURS

DAY/DATE: WEDNESDAY 5/12/2018

2.30 P.M - 5.30 P.M.

INSTRUCTIONS TO CANDIDATES

- Do not write anything on the question paper.
- Mobile phones and any other reference materials are **NOT** allowed in the examination room.
- The paper has four (4) questions. **ALL** the questions are compulsory
- Number **ALL** your answers and indicate the order of appearance in the space provided in the cover page of the examination answer booklet.

QUESTION ONE

Madam K is admitted in the medical ward with manifestations of difficulty in breathing, palpitations and excessive diaphoresis. On auscultation, wheezes are heard. A diagnosis of Asthmatic attack is made.

- a) Discuss any three (3) types of asthma [6 marks]
- b) Describe the pathophysiology of asthma [10 marks]
- c) Explain two (2) other causes of obstructive disease other than asthma [4 marks]

QUESTION TWO

Master T, a 6-year-old boy is admitted in the paediatric ward with history of not passing urine in the preceding three days. On inquiry history of sore-throat is elicited.

- a) Discuss four (4) factors that determine the glomerular Filtration rate [8 marks]
- b) Describe the pathophysiology of post streptococcal glomerulonephritis [12 marks]

QUESTION THREE

**NUMS 825**

Mr. P, a 60-year-old Male is admitted in the medical ward in an unconscious state. On examination he has severe jaundice. The relatives report that he is a known alcoholic. Blood sugar levels are normal. A diagnosis of hepatic failure due to liver cirrhosis is made.

- a) Explain two(2) causes of liver cirrhosis [5 marks]
- b) Discuss five(5) clinical manifestations of liver cirrhosis other than jaundice [15 marks]

**QUESTION FOUR**

World Health Organization (WHO) advocated for universal iodization of salt to eradicate hypothyroidism. This has contributed to a decline in cases of endemic goitre. However, cases of hyperthyroidism persist.

- a) Explain five(5) causes of hyperthyroidism [10 marks]
  - b) Describe the pathophysiology of Graves' disease [10 marks]
- .....