

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

NUMS 825:ADVANCED PATHOPHYSIOLOGY II

STREAMS: MSC NURSING (Y1T3)

TIME: 3HOURS

DAY/DATE: WEDNESDAY 4/12/2019

2.30 P.M - 5.30 P.M

INSTRUCTIONS

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

Adequate tissue oxygenation depends on adequate ventilation and perfusion of the respiratory portion of the respiratory system. However several factors may impair the flow of airway resulting in increased work of breathing.

(a) Discuss three (3) categories of work of breathing indicating how they are affected in respiratory disease. [9 marks]

(b) Describe the pathophysiology of hemodynamic /cardiogenic pulmonary edema. [11 marks]

QUESTION TWO

Anemias and Leukemia are by far the most common hematologic conditions in both children and adults. They differ both on the cause and clinical manifestations.

(a) Classify anemias based on the morphology of the erythrocytes giving one cause of each. [6 marks]

(b) Discuss the clinical manifestations of Acute Myeloid Leukemia (AML). [14 marks]

QUESTION THREE

Diabetes Mellitus is an endocrine disorder resulting from impaired glucose metabolism. If left unchecked, it may result in severe and life threatening complications.

- (a) Explain three (3) hormones that play a role in regulating blood glucose levels other than insulin. [9 marks]
- (b) Discuss the pathogenesis of complications of diabetes Mellitus giving appropriate examples. [11 marks]

QUESTION FOUR

Ninety five percent of nephrotic syndrome in adult and 60% in children results from primary glomerular disease. If not adequately managed, this predisposes to chronic renal failure.

- (a) Discuss four (4) primary glomerular diseases that may result in nephrotic syndrome. [8 marks]
- (b) Discuss four (4) clinical features of chronic renal failure. [12 marks]

QUESTION FIVE

Inflammatory bowel diseases refer to a group of disorders arising from inappropriate activation of the mucosal immune system of the bowels resulting in inflammation. These conditions often result in diarrhea.

- (a) Explain four (4) types of diarrhea. [10 marks]
 - (b) Describe the two (2) categories of inflammatory bowel diseases. [10 marks]
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