CHUKA



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EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN

BMET 111: HUMAN PHYSIOLOGY

STREAMS: TIME: 2 HOURS

DAY/DATE: TUESDAY 30/03/2021 8.30 A.M – 10.30 A.M

INSTRUCTIONS:

Answer question one and any other two questions

QUESTION ONE

(a) Explain the mechanism of blood pH regulation by respiratory system. [6 marks]

(b) Describe the feedback mechanism involved in regulation of human body temperature.

[5 marks]

(c) Highlight the roles of any 5 hormones secreted by the hypothalamus. [5 marks]

(d) Explain the role of ADH in regulation of body water output. [5 marks]

(e) Outline any 4 brush boarder enzymes. [4 marks]

(f) Explain the role of testosterone in male reproductive function. [5 marks]

QUESTION TWO (20 MARKS)

(a) Describe 5 components of the heart conduction system. [10 marks]

(b) Describe the mechanism of hormone response resulting from the binding of a hormone with an extracellular receptor. [10 marks]

QUESTION THREE (20 MARKS)

(a) Elucidate the events during oogenesis that produce haploid oocyte from diploid cells.

[10 marks]

(b) Describe the renal regulation of acid base balance. [10 marks]

QUESTION FOUR (20 MARKS)

(a) Describe ABO and RH blood groupings. [10 marks]

(b) Explain the process of lipids digestion and absorption in humans. [10 marks]

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