CHUKA



UNIVERSITY

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RESIT/SUPPLEMENTARY / SPECIAL EXAMINATIONS EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF

BMET 111: HUMAN PHYSIOLOGY

STREAMS: TIME: 2 HOURS

DAY/DATE: THURSDAY 06/05/2021 2.30 P.M - 4.30 P.M.

INSTRUCTIONS: Answer question **one** and **any other two** questions

Questions

Question 1 (Compulsory) (30 marks)

- a) Briefly describe the role of aldosterone in regulation of body water output. (5 marks)
- b) Explain briefly the mechanism of renal blood pH regulation. (6 marks)
- c) With a relevant example, explain the components of negative feedback mechanism.

(5 marks)

- d) Outline any 5 hormones secreted by the hypothalamus. (5 marks)
- e) Explain the hormonal changes that occur during menses phase of menstrual cycle.

(4 Marks)

f) Explain the role of testosterone in male reproductive function. (5 Marks)

Question 2 (20 marks)

- a) Describe respiratoryregulation of acid-base balance. (10 marks)
- b) Describe the mechanism of hormone response resulting from the binding of a hormone with an intracellular receptor. (10 marks)

Question 3 (20 marks)

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a) Describe the events during oogenesis that produce haploid sperm cell from diploid cells.

 (10 Marks)

b) Describe 5 components of the heart conduction system. (10 Marks)
Question 4 (20 marks)
a) Describe ABO and RH blood grouping. (10 Marks)
b) Explain the process of lipid digestion and absorption in humans. (10 Marks)