CHUKA



UNIVERSITY

[1 mark]

[1 mark]

[6 marks]

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN BIOMEDICAL SCIENCE

BMED 110: HUMAN MORPHOLOGY AND DEVELOPMENTAL ANATOMY

STREAMS: BSC (BMED) TIME: 2 HOURS

DAY/DATE: TUESDAY 5/07/2016 11.30 AM – 1.30 PM

INSTRUCTIONS:

(b)

(c)

- 1. Do not write anything on the question paper
- 2. Mobile phones and any other reference materials are NOT allowed in the examination room
- 3. The paper has five questions. Answer questions One and any other Two questions
- 4. Number all your answers and indicate the order of appearance in the space provided in the cover page of the examination answer booklet.
- 1. (a) Define the following embryologic terms

Blastocyst

Morula

(i)

(ii)

- (iii) Conceptus [1 mark]

 State five major events that occur during the third week of embryonic development. [5 marks]

 With an aid of a diagram, explain the external anatomy of the heart.
- (d) Explain the anatomical relationship of the heart and the lungs. [6 marks]
- (e) Describe the major components of the blood. [6 marks]
- (f) Explain the differences between pulmonary circulation and systemic circulation. [4 marks]
- 2. The urinary system filters blood removing waste products which leave the body as urine:

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	(a)	Describe the organs that comprise the urinary system.	[8 marks]	
	(b)	With a well-labeled diagram, describe the anatomy of the nephron.	[8 marks]	
	(c)	Explain the difference between the two types of nephrons in human	n body. [4 marks]	
3.	The m	ne male and female reproductive organs work together to produce offspring		
	(a)	State the organs that form the female reproductive system.	[5 marks]	
	(b)	With a well-labeled diagram, explain the anatomy of the uterus.	[7 marks]	
	(c)	Identify the ligaments that support the uterus in the pelvic cavity.	[8 marks]	
4.	Explai	n five major events that occur during the second week of embryonic	development. [20 marks]	
5.	Variou	Various organs are involved in the breakdown of food form the digestive system.		
	(a)	Describe the accessory organs of the digestive system.	[8 marks]	
	(b)	State the three subdivisions of the small intestine.	[3 marks]	
	(c)	Explain the structural features of the small intestine that facilitate the digestion and absorption of food.	he process of [9 marks]	