CHUKA



UNIVERSITY

# **UNIVERSITY EXAMINATIONS**

# EXAMINATION FOR THE AWARD OF DIPLOMA IN ANIMAL HEALTH AND PRODUCTION

#### ANHE 0112: EMBRYOLOGY AND HISTOLOGY

**STREAMS:** 

**TIME: 2 HOURS** 

2.30 P.M – 4.30 P.M

[5

### DAY/DATE: THURSDAY 06/12/2018 INSTRUCTIONS

#### SECTION A: ATTEMPT ALL QUESTIONS 40 MARKS

1.	Describe the structure of male and female gametes by use of a simple well labeled	
	diagram.	[5marks]
2.	Describe the following terms;	[5 marks]
	(a) Embryology	
	(b) Ontogenesis	
	(c) Teratogenesis	
	(d) Conception	
	(e) Foetus	
3.	Describe how entry of multiple sperm into the egg is prevented.	[5 marks]
4.	Outline the tree germ layers and state the main body systems that develop from them.	
	[ 5marks]	
5.	Describe the steps involved for implantation to occur.	[5marks]
6.	Define placentation and state different types of plancentation.	[5 marks]
7.	Outline various causes of embryonic malformations.	[5 marks]
8.	Describe the importance of staining I histology and list some types of stains used.	

marks]

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## SECTION B: ATTEMPT ANY 2 QUESTIONS (30 MARKS)

9.	Describe the following:			
	(a) The process involved in cleavage stage till the blastula is formed.	[10 marks]		
	(b) List derivatives of the forebrain, midbrain and hindbrain in the embry	o. [5 marks]		
10.	Describe the following ;			
	(a) How tissues are stored for histopathological examination.	[5 marks]		
	(b) Describe the processes involved when processing a tissue to make a si	lide for		
	examination.	[10 marks]		
11.	Describe the following;			
	(a) Describe formation of the cardiovascular system.	[7 marks]		
	(b) Describe the endochondral bone formation.	[8 marks]		