

## TECHNICAL UNIVERSITY OF MOMBASA

# FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF PURE & APPLIED SCIENCES UNIVERSITY EXAMINATION FOR:

### **BSPH**

AAB 4106: HUMAN GENETICS

END OF SEMESTER EXAMINATION

**SERIES:** APRIL 2016

TIME: 2 HOURS

**DATE:** Pick Date May 2016

#### **Instructions to Candidates**

You should have the following for this examination *Answer Booklet, examination pass and student ID* 

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

#### **Ouestion ONE**

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# **Question TWO**

Describe the structure of the following

a. Retroviruses	(10 marks)
b. LINEs transposable elements	(10 marks)
Question THREE	
a) Explain replication in mitochondrial genome	(10 marks)
b) Describe the four stage of the cell cycle	(10 marks)
Question FOUR	
a) Explain the causes and symptoms of Downs syndromes	(10 marks)
b) Describe gastrulation process in a human embryo using illustration	(10 marks)
Question FIVE	
Describe plasmid vectors using illustration	(20 marks)