



# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF MEDICAL SCIENCES

**UNIVERSITY EXAMINATION FOR: P1**

MSC

AML5111: BIOINFORMATICS

END OF SEMESTER EXAMINATION

**SERIES: APRIL 2016**

**TIME: 2 HOURS**

**DATE: 16 Apr 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 any **THREE** questions.

**Do not write on the question paper.**

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## **Question ONE**

Describe the procedure for DNA extraction?

## **Question TWO**

Define the following terms (20 marks)

- a) Genetic code
- b) Codon
- c) Gene
- d) Genomics
- e) Base pairs

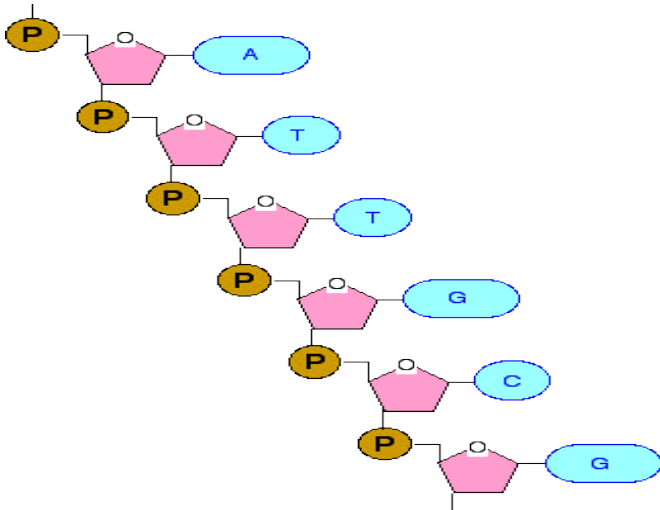
## **Question THREE**

a) With the aid of a clearly labeled diagram describe a replication fork (10 marks)

b) Explain sense and antisense (10 marks)

#### Question FOUR

Given the diagram shown below construct a polypeptide chain and explain each step



#### Question FIVE

Describe the formation of a transcript by use of exons and introns