



TECHNICAL UNIVERSITY OF MOMBASA

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.

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

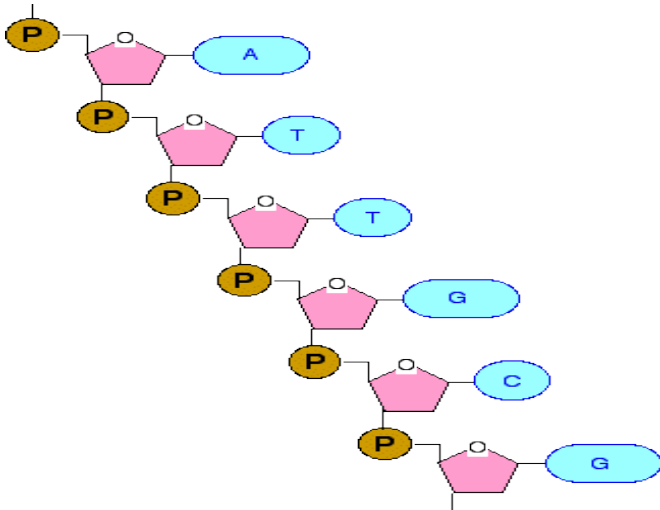
Question THREE

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