



### THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

# Faculty of Engineering and Technology

# DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

HIGHER DIPLOMA IN COMPUTER STUDIES – H/DIP 10A YR I SEM I

**EIT 3112: PROJECT MANAGEMENT** 

END OF SEMESTER EXAMINATIONS

**SERIES:** AUGUST/SEPTEMBER 2011

**TIME:** 2 HOURS

#### **Instructions to Candidates:**

You should have the following for this examination

Answer booklet

This paper consists of **TWO** sections A & B Answer question **ONE** (**COMPULSORY**) in section A and any other **TWO** questions in section B

This paper consists of **THREE** printed pages

#### SECTION A – Answer all questions in this section (30 MARKS)

#### **Question 1 (Compulsory)**

a) Define the term project (2 marks)

**b)** Name and explain **SIX** characteristics of a project (12 marks)

**c)** What is a waterfall model, state and explain the stages of the model (5 marks)

**d)** What is project scheduling and what does it involve? (8 marks)

**e)** What are the basic areas that idea screening during feasibility study? (3 marks)

#### **SECTION B (Answer any TWO questions) – 40 MARKS**

#### **Question 2**

a) What is the meaning of the word program as used in projects (3 marks)

b) Define the term Risk Management (2 marks)

c) What are the **FOUR** stages of risk management planning (5 marks)

d) What is the criterion used to test the completeness of work breakdown structures?

(10 marks)

#### **Question 3**

a) What is project crashing (2 marks)

b) What is a work breakdown structure (WBS) and of what importance is it to the project manager (10 marks)

c) List and explain **FOUR** project tools (8 marks)

#### **Question 4**

a) Briefly explain the advantages of Critical Path Methods (CPM) in Project Management (12 marks)

b) What is the use of forward and backward pass information in the process of developing a network plan for a project? (8 marks)

#### **Question 5**

KBL Ltd listed the following activities in respect to a project

ACTIVITY	PRECEDING ACTIVITY	DUDATION (DAVS)	NO OF STAFE

A	-	2	6
В	A	3	2
С	A	5	4
D	A	8	2
E	В	6	6
F	С	1	5
G	С	2	3
Н	C,D	3	3
I	E,F	7	4
J	G,H	4	5
K	I,J	5	4

## Required:

a) Draw an A.O.A diagram and determine the critical path

(6 marks)

- b) Calculate the total float, free float and Independent float on non-critical activities (4 marks)
- c) Draw a Resource Aggregation Profile and establish the minimum number of staff required for the Project (10 marks)