THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR DEGREE IN
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY (BSc. I.T. 9S)
(YR III, SEM II)

BIT 2215: PROJECT MANAGEMENT

END OF SEMESTER II EXAMINATION

SERIES: DECEMBER 2011
TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination
- *Answer Booklet*

This paper consist of **FIVE** questions in **TWO** sections **A** & **B**
Answer question **ONE (COMPULSORY)** and any other **TWO** questions
Maximum marks for each part of a question are as shown
This paper consists of **THREE** printed pages

SECTION A (*Compulsory*)

QUESTION 1 (30 marks)

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 (8 Marks)
d) Define the following terms as used in project management (10 Marks)
- **i.** Normal time
- **ii.** Crash time
- **iii.** Normal cost
- **iv.** Crash cost
- **v.** Cost slope

SECTION B (*Attempt any TWO questions*)

QUESTION 2 (20 Marks)

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 (20 Marks)

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 (20 Marks)

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 (20 Marks)

KBL Limited listed the following activities in respect to a project

ACTIVITY	PRECEDING ACTIVITY	DURATION (DAYS)	NO OF STAFF
A	-	2	6
B	A	3	2
C	A	5	4
D	A	8	2
E	B	6	6
F	C	1	5
G	C	2	3
H	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)