



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

Faculty of Engineering & Technology

DEPARTMENT OF CIVIL AND BUILDING ENGINEERING

**DIPLOMA IN CIVIL ENGINEERING
DA/DB/DC 08**

CONSTRUCTION MANAGEMENT & LAW

END OF SEMESTER EXAMINATIONS

APRIL/MAY 2010 SERIES

TIME: 2 HOURS

Instructions to Candidates

You should have the following for the examinations:

- Answer Booklet
- Calculator

This paper consists of **FOUR** Questions.

Answer **ANY THREE** Questions.

All questions carry equal marks

Maximum marks for each part of a question are as shown.

SECTION A

Question ONE

- (i). State and describe the **TWO** main categories of law giving two examples of each. **(5 Marks)**
- (ii). Define the term 'Tort' and outline **FOUR** defences in tort. **(5 Marks)**
- (iii). Sketch a diagram showing the structure and hierarchy of criminal courts in Kenya. **(10 Marks)**

Question TWO

- (a). (i). Explain the term redundancy.
- (ii). Differentiate between a grievance and a dispute.
- (iii). Outline the causes of symptomatic grievances. **(7 Marks)**
- (b). List **FOUR** types of trade Unions. **(4 Marks)**
- (c). (i). Name the **THREE** major players in labour relations.
- (ii). Explain the function of a shop steward.
- (iii). State **FOUR** objectives of a trade union. **(9 Marks)**

Question THREE

- (a). Outline the **FOUR** basic resources of production in work study. **(4 Marks)**
- (b). State the use of the following in work study:
- (i). Method study
- (ii). Work measurement **(4 Marks)**
- (c). (i). Define the term "Basic time" as used in Time study.
- (ii). The following data was obtained in a time study exercise:
Observed time for an element = 5 Minutes
Observed rating for the element = 95%/100 scale
Relaxation allowance = 28%
Contingency allowance = 4%
Determine the standard time for the task. **(12 Marks)**

Question FOUR

(a). Define the terms below:

- (i). Independent float
- (ii). Free Float
- (iii). Interfering Float

(6 Marks)

(b). Table I shows the activities and durations of a construction project.

- (i). Draw the network diagram
- (ii). Determine the critical path
- (iii). Determine the total project float

Table I

Activity	Operation	Duration Days
1 – 2	A	6
1 – 6	B	5
2 – 3	C	13
2 – 4	D	4
3 – 5	E	11
4 – 5	F	6
6 – 7	G	11
5 – 8	H	3
7 – 8	I	15

(14 Marks)