



# Machakos University College

(A Constituent College of Kenyatta University)

University Examinations 2013/2014

SCHOOL OF ENGINEERING

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

**Certificate in Plumbing**  
**Certificate in Masonry**  
**Certificate in Carpentry and Joinery**  
Year 2

Site and Workshop Management

Date: 24/3/2014

Time: 8:00 – 11:00 am

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## *Instructions to Candidates*

(i) You should have the following for this Examination

- Answer booklet
- Drawing Instruments.

(ii) Answer any five of the following Eight questions

(iii) All questions carry equal marks

1. (a) Briefly explain any two management relationships that exists in an organization . (4 marks)
- (b) State four causes of termination of employment. (2 marks)
- (c) List any four characteristics of a good filing system to ensure efficiency. (4 marks)
- (d) Define the term motivation and outline four aspects on how a supervisor can motivate workers on site. (10 marks)
2. (a) Briefly explain five types of incentives that may be introduced in a building firm. (10 marks)
- (b) State any five general guidelines to be considered when disciplining an employee on a construction site. (5 marks)
- (c) Briefly explain the following methods of filing
  - (i) Alphabetical

- (ii) Numerical (5 marks)
3. (a) Explain the meaning of the term Building Team as used in project. (2 marks)
- (b) State three duties of each of the following parties in a building project.
- (i) Clerk of works
  - (ii) Quantity surveyor
  - (iii) Accountant
  - (iv) Structural engineer
- (c) State four essential requirements for a workshop (4 marks)
- (d) State four precautions that should be taken to minimize theft on a construction site. (8 marks)
4. (a) State the three regulations to be considered when designing a workshop and give Two provisions for each. (9 marks)
- (b) State Four causes of accidents in a workshop. (4 marks)
- (c) List Five items that would appear on a site signboard for a proposed building project. (5 marks)
- (d) Give Two reason for holding site meeting on construction site. (2 marks)
5. (a) Explain the following terms with respect to construction project.
- (i) Defect liability period
  - (ii) Interim certificate
  - (iii) Commencement notice
  - (iv) Provisional Sun
  - (v) Prime cost scun
- (10 marks)
- (b) Sketch a chart showing the relationship of parties involved in a construction project. (10 arks)
6. (a) Briefly explain the following
- (i) Method statement
  - (ii) Payment voucher
  - (iii) Master programme
  - (iv) Planned zone

- (b) Table 1 shows a building project activities, prepare a bar chart for the project showing the correct order of operation. (12 marks)

O.P NO	OPERATION	DURATION
1.	Doors and windows fixing	10
2.	Floor spreading	3
3.	Plastering	6
4.	Solid ground floor and walling	4
5.	Trench excavation	5
6.	Setting out	2
7.	Foundation Courses	3
8.	Road Trusses and covering	4
9.	Clearing site	7
10.	Clearing and moving out	8

7. (a) Explain the following types of maintenance giving one advantage of each
- (i) Adhoc
  - (ii) Preventive (8 marks)
- (b) (i) Prepare a sketch of a site layout for a medium site
- (ii) State one function for each of the six items in a mandatory site layout. (12 marks)
- (c) (i) Explain the difference between fencing and hoarding
- (ii) Give two advantages of
- (i) Fencing site
  - (ii) Hoarding site (8 marks)