



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)
University Examinations for 2014/2015

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

EXAMINATION FOR CERTIFICATE IN MASONRY
EXAMINATION FOR CERTIFICATE IN PLUMBING

1305/312/1304/312 SITE WORKSHOP MANAGEMENT

DATE: 19/3/2014

TIME: 3 HRS

Instructions

- *Answer any five questions out of the eight questions on this paper*
- *You should have the following for this paper*
- *Drawing equipment*
- *Answer booklet*

1. A) State four requirements for each of the following provision in the factories act:
 - i) Health
 - ii) Welfare
 - iii) Safetyb) State 4 advantages of perpetual inventory system. (8 marks)
2. A) Explain the meaning of the term building team as used in a project. (2 marks)
 - b) State 3 duties of each of the following parties in a building project
 - i) client
 - ii) Quantity surveyor
 - iii) Clerk of works
 - iv) General foreman (6 marks)
 - c) State four essentials requirements for a workshop (4 marks)
 - d) State four precautions that should be taken to minimize theft on a construction site. (8 marks)

3. a) Distinguish between tort and crime. (2 marks)
- b) Briefly explain four factor's to consider when planning the layout of a workshop (8 marks)
- c) Briefly explain the following -:
- i) Permanent stores
 - ii) Consumable materials
 - iii) Quotation form
 - v) Local purchase order (8 marks)
- d) State how an approval by the local authority for erection of a structure may become null and void. (2 marks)
4. a) Explain the following terms with respect to construction projects
- i) Defect liability period
 - ii) Provisional sum
 - iii) Prime sum
 - iv) Commencement certificate
 - v) Interim certificate (10 marks)
- b) List seven essentials of a valid contract. (7 marks)
- c) Briefly explain 3 methods in which a valid contract can be discharged. (3 marks)
5. a) Explain the following types of contract.
- i) Lump sum contract
 - ii) Serial contract
 - iii) Package deal
 - iv) Measured contract (10 marks)
6. a) Explain the use of each of the following documents.
- i) Site diary
 - ii) Circular
 - iii) Memos
 - iv) Notices (8 marks)
- c) Explain two relationships that exist in an organization structure. (2 marks)
7. a) Briefly describe there methods of plant acquisition. (6 marks)
- b) Describe four types of preliminary items provided in a construction site. (8 marks)
- c) Briefly describe any three contract documents. (6 marks)

8. a) Briefly describe the following documents as used in ordering and supplying of materials.
- i) Delivery note
 - ii) Advice note
 - iii) Invoice
 - iv) Requisition form (6 marks)
- b) Describe any two methods of tendering. (6 marks)
- c) Describe any four safety factors to be considered when installing machines (8 marks)
9. a) State any five ways of motivating workers on a construction site. (5 marks)
- b) Outline four qualities of a good leader. (4 marks)
- c) Briefly explain any four reasons which may lead to a worker being disciplined on a construction site. (4 marks)
- d) List any four factors to be considered on whether to buy or hire mechanical plants. (4 marks)
- e) State any 3 principles of financial incentives schemes. (3 marks)