

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 CONSTRUCTION TECHNOLOGY

BCE: BT 105: CONSTRUCTION MANAGEMENT

TIME: 3 HRS

DATE: 7/4/2015

Instructions

- This paper consists of five questions
- Answer question one (compulsory) and any other two questions
- Maximum marks for each part of a question are as shown

SECTION A (30 MARKS)

- 1. a) (i) Define the following terms:
 - i) Workshop
 - ii) Building site (4 marks)
 - (ii) Explain the meaning of a materials transfer note and how it is used in relation to a workshop or site (5 marks)
 - b) i) Explain the term market in terms of availability and distance. (4 marks)
 - ii) What are county plan zones? Explain basing your answer on divisions in the county towns (3 marks)
 - c) i) Draw a site plan for a proposed building and indicate positions for the following construction materials to produce the most effective site.
 - Sentry box

- Site office
- Workers huts
- Canteen
- General stores
- Building stores (12 marks)
- ii) Explain the term multi-handling in relation to materials control.(2 marks)
- 2. a) Explain the following terms as used in materials control;_
 - i) Goods received note
 - ii) Order form
 - iii) Requisition form (12 marks)
 - b) Explain three regulations governing a workshop design (4 marks)
 - c) Explain an invoice note and how it is applied in the purchasing of materials in a workshop or site
- 3. a) Draw the following receipts as referred to when ordering materials and fill all the required details.
 - i) Delivery note
 - ii) Materials return note
 - iii) Advice note

b) explain why it is necessary to have watchmen on site and show how to determine the number required in a given site (4 marks)

c) List four disadvantages of having excessive stock of materials in a building site.

(4 marks)

(12 marks)

- 4. a) Explain how the following materials should be stored in a building site or workshop.
 - i) Cement and lime
 - ii) Sand and ballast
 - iii) Timber
 - iv) Reinforcement bars (8 marks)
 - Explain the three factors considered when storing materials in a building site or workshop (6 marks)
 - i) Cement and lime

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	ii)	Sand and ballast	
	iv)	Timber	
	v)	Reinforcement bars	(8 marks)
	b) Explain the three factors considered when storing materials in a building site or		
	work	workshop (6 marks)	
	c) Wa	aste materials in a building site at time becomes a problems. H	Explain 3 methods of
	reduc	reducing wastage (6 marks)	
5.	A)i) Sta	A)i) State four essential requirements of a workshop (4 marks	
	ii) State four precautions that should be taken inorder to minimize theft on a construction		
	site.		(4 marks)
	b) State 4 advantages of perpetual inventory systems (4 mat		(4 marks)
		i) State and explain 4 requirements for each of the following	ing provisions in the
		factories act.	
	i)	Health	
	ii)	Welfare	
	iii)	Safety	
c) i) Explain the essential services that should be in a building site. (2 marks)			

ii) Explain a materials transfer note and how it is used in a workshop or site. (3 marks)