



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)
University Examinations for 2015/2016

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

FIRST SEMESTER EXAMINATION FOR CERTIFICATE IN BUILDING
CONSTRUCTION TECHNOLOGY

BCE BT 212: CONSTRUCTION MANAGEMENT IV

Date: 4/8/2016

Time: 8:30 – 10:30 AM

INSTRUCTIONS

- This paper consists of (5) five questions
 - Answer questions one (compulsory) and any other two
 - Maximum marks for each part of a question are as indicated.
1. (a) i) Name four sub-contractors that are engaged in a building site by the main contractors. (4 marks)
ii) Draw a works schedule for the construction of a simple two roomed house to be constructed in 30days from foundation to roof. (10 marks)
 - (b) i) Explain the meaning of site clearance in a building site. (3 marks)
ii) Draw a bar chart of the activities of the plants in a building site during site clearance of a site measuring one acre and sloping to one side (10 marks)
 - (c) Explain the term quotations as refers to the bills of quantities. (3 marks)
 2. (a) Draw a sub-contractors works schedule for a two roomed house for a period of 30days in installation of water systems. (10 marks)
 - (b) State two functions of trade unions. (4 marks)
 - (c) Name and explain three advantages of incentive schemes. (6 marks)
 3. (a) Explain the works of the following equipments and machines used in a building site.
(i) Bulldozer
(ii) Dumper

Examination Irregularity is punishable by expulsion

- (iii) Back actors (15 marks)
 - (b) Explain how a contractor gets sub-contractors in a construction site. (5 marks)
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 - (a)
 - (i) Define the term trade union and how it works. (2 marks)
 - (ii) Name two causes of industrial dispute in a building site (4 marks)
 - (b)
 - (i) Name and explain two principals concerning incentive schemes (6 marks)
 - (ii) Explain how construction programs are prepared. (6 marks)
 - (c) Name two apprenticeship or forms of training workers in a site or workshop (2 marks)
- 5.
 - (a) Explain the following incentive schemes
 - (i) Hourly-plus rates
 - (ii) Piece Work (6 marks)
 - (b)
 - (i) Name four non financial incentives that can be used to motivate workers. (4 marks)
 - (ii) Explain the following provisions as concerns workers welfare in a site or workshop
 - (i) Health
 - (ii) Welfare
 - (iii) Safety (6 marks)
 - (c) Name and explain two filling systems that are practically used in a building site. (4 marks)



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FIRST SEMESTER EXAMINATION FOR CERTIFICATE IN BUILDING
CONSTRUCTION TECHNOLOGY

BCE BT 105: CONSTRUCTION MANAGEMENT I

Date: 4/8/2016

Time: 2:00 – 4:00 PM

INSTRUCTIONS

- This paper consists of (5) five questions
- Answer questions one (compulsory) and any other two
- Maximum marks for each part of a question are as indicated.

- 1 (a) Define the following terms
- (i) Workshop
 - (ii) Building site (4 marks)
- (b) Explain the term “face of communication” in relation to the factors considered in selecting a workshop site. (4 marks)
- (c) Draw a site plan for a proposed building and indicate positions for the following constructions.
- (i) Sentry box
 - (ii) Site offices
 - (iii) Workers huts
 - (iv) Pit Latrines
 - (v) Canteen
 - (vi) General stores
 - (vii) Timber Yards (10 marks)

- (d) Explain the following terms as used in material control:-
 (i) Requisition
 (ii) Good received note (8 marks)
- (e) Explain a material transfer note and how it is used in a workshop or site. (6 marks)
2. (a) Name and explain three regulations governing a workshop design
- (b) Explain the following terms as used in material control:-
 (i) Requisition
 (ii) Good received note (8 marks)
- (c) Explain a material transfer note and how it is used in a workshop or site. (6 marks)
3. (a) Draw and fill the following receipts as referred to when ordering materials in a workshop or Site.
 (i) Delivery note
 (ii) Advice note
 (iii) Material return note (15 marks)
- (b) Explain the term “bin card” and how they are used in a building site or workshop. (5 marks)
4. Draw a site plan and by using suitable rectangles indicate positions of the following materials
 (i) Sand
 (ii) Building stones
 (iii) Ballast
 (iv) Gate positioning
 (v) Fencing around the site (10 marks)
5. (a) Explain the following terms in relation to site management.
 (i) Requisition
 (ii) The enquiry (4 marks)
- (b) Explain the importance of health provisions in a workshop and name at least five of them (4 marks)
- (c) Define the term workshop (2 marks)