



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

THIRD SEMESTER EXAMINATION FOR CERTIFICATE IN BUILDING
CONSTRUCTION TECHNOLOGY

BCE BT 212: CONSTRUCTION MANAGEMENT IV

Date: 1/12/2015

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.

- Name (4) four sub contractors that are engaged in a building site by the main contractor. (4 marks)
 - Draw a works schedule for the construction of a simple (2) two roomed house to be constructed in 30m days from foundation to roof. (10 marks)
 - Explain the meaning of site clearance in a building site. (3 marks)
 - 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)
 - Explain the term quotations as refers to bills of quantities (3 marks)
- Draw a sub-contractors works schedule for a (2) two roomed house for a period of 30 days in installation of water systems. (10 marks)

- b) Draw a crane and explain how it works. (6 marks)
- c) State (2) two functions of trade unions. (4 marks)
3. a) Explain the works of the following equipments and machines used in a building site.
- (i) Bulldozer
- (ii) Dumper
- (iii) Back actors (15 marks)
- b) Explain how a contractor gets sub contractors in his construction. (5 marks)
4. a) Draw a site plan showing all the amenities, constructions and pit latrines in the compound. (10 marks)
- b) (i) Define the term trade unions. (2 marks)
- (ii) Name (2) two causes of industrial disputes in a building site. (4 marks)
- c) Explain how construction programmes are prepared. (4 marks)
5. a) (i) Name (2) two principles concerning incentive schemes. (4 marks)
- (ii) Name and explain the advantages and disadvantages of incentive schemes. (6 marks)
- b) Explain the following incentive schemes
- (iv) Hourly- plus rates
- (v) Piece work (6 marks)
- c) Name (4) four non-financial incentives that can be used to motivate workers. (4 marks)