



MACHAKOS UNIVERSITY

University Examinations 2016/2017

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

FIRST YEAR SECOND SEMESTER EXAMINATION FOR CERTIFICATE IN
BUILDING CONSTRUCTION TECHNOLOGY

BCE BT 113: CONSTRUCTION MANAGEMENT II

DATE: 6/6/2017

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) Name three site services that are mandatory in a building site (6 marks)
- b) i. Name and explain two classifications of maintenance of tools and equipment's (4 marks)
- ii. Name and explain three preliminary items for the works in a building site (6 marks)
- c) i. Explain the main purposes of preliminary items in a building site (2 marks)
- ii. List three main reasons for introducing equipment and machines in a building site (3 marks)
- d) Name and explain the works of the following plants by giving two examples of each
- i. Bulldozer

- ii. Pneumatic rammers
 - iii. Excavator (9 marks)
- 2. a) i. State and explain three methods that one used to enhance safety in the operation of equipment during maintenance operation. (6 marks)
- ii Name and explain three regulations regarding preliminary items (6 marks)
- b) Explain the two major causes of idle time in a building site (2 marks)
- c) State and explain three factors considered when deciding on the type of plant to acquire (6 marks)
- 3. a) Explain the purpose of the following preliminaries items
- i. Safety
 - ii. Health
 - iii. Communication (9 marks)
- b) Explain five areas that should be covered by insurance in a building site towards the safety of the workers and property. (5 marks)
- c) A person who wishes to erect temporary structures in a building site must seek written approval from the local authority. Explain why the constructor should work in consultation with the local authority (6 marks)
- 4. a) State three advantages of buying plant and three advantages of hiring plant (12 marks)
- b) Name and explain four types of plants that are used in a building site (4 marks)
- c) State four conditions that must be taken care of in a building site when preparing the bills of quantities (4 marks)
- 5. a) i. Name five tools & equipment that are commonly used in a construction site (5 marks)
- ii. State the purpose of material transportation equipment in site and name three of them. (5 marks)
- b) Explain two methods of acquiring plants in a building site (4 marks)
- c) Explained the meaning of the term preliminary items (3 marks)
- d) Name and explain three preliminary items in administration and accommodation (3 marks)