



MACHAKOS UNIVERSITY

University Examination 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

FIRST YEAR SECOND TERM EXAMINATION FOR

CERTIFICATE IN BUILDING TECHNOLOGY

SITE AND WORKSHOP MANAGEMENT II

DATE:

TIME:

INSTRUCTIONS:

-Answer any five questions from the eight questions.

-All questions carry equal marks.

1. a) List the five main reasons for introducing equipments and machines in a building site.(10 marks)

 b) State five advantages of buying a plant and five advantages of hiring a plant.(10 marks)
2. With aid of drawings show the following documents which are applicable in a building site
 - i) Material transfer form.
 - ii) Material delivery note.
 - (iii) Inventory.
 - (iv) Advice note.(20 marks)
3. a) Define the term preliminancy items and state three preliminary items that have to be considered before carrying out the works.(12 marks)

 b) Explain how water can be got in a building site.(4 marks)

- c) State two reasons why we need electricity in a site. (4 marks)
4. a) A young contractor intends to build a house for a client. Draw a site plan and indicate the following:
- i) Sand dump.
 - ii) Aggregate dumps.
 - iii) Building stones dumps.
 - iv) Workers Guts.
 - iv) Site offices.
 - v) Sentry box. (12 marks)
- b) List three essential services of a workshop (3 marks)
- c) Briefly explain the term measured type of a contract (5 marks)
5. a) State two advantages of identifying dumps with sign boards prior to the arrival of materials (8 marks)
- b) Outline the three roles played by the following parties during construction of a project in a site and who hires them
- i) Clerk of works
 - ii) General foreman
 - iii) Estimation (12 marks)
6. State any four contract documents and explain how they are used. (20 marks)
7. a) Explain the term tendering (4 marks)
- b) Name and explain two types of tenders (10 marks)
- c) List two advantages and two disadvantages of selective tender (6 marks)
8. a) Name three forms of a contract that are commonly practiced by contractors and their clients (3 marks)
- b) List five types of contracts. (5 marks)
- c) Explain the following clause and how it affects the contractor
- Clause 22 (12 marks)