



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

FIRST YEAR THIRD SEMESTER EXAMINATION FOR

CERTIFICATE IN BUILDING TECHNOLOGY

SITE AND WORKSHOP MANAGEMENT

DATE: 15/12/2020

TIME: 2.30-5.30 PM

INSTRUCTIONS

SITE AND WORKSHOP MANAGEMENT

1.
 - a) Identify any five local authority's requirements before a workshop becomes operational. (5 marks)
 - b) State six essential services for a workshop. (6 marks)
 - c) Give two examples of regulations with regard to each of the following provisions:
 - i. Health provisions
 - ii. Safety provisions
 - iii. Welfare provisions. (9 marks)
2.
 - a) Explain three main principles which should apply when buying materials. (9 marks)
 - b) Explain the purpose of the following documents in material acquisition
 - i. Quotation
 - ii. Order
 - iii. Delivery note. (6 marks)
 - c) Identify five disadvantages of stocking excessive materials on site. (5 marks)
3.
 - a) Discuss five ways in which material wastage can be reduced on a site. (10 marks)
 - b) List five factors to be considered in deciding to buy or hire a plant. (5 marks)

- c) i Explain the term maintenance with regard to tools/equipment (2 marks)
 - ii Outline three reasons why careful planned maintenance is important. (3 marks)
- 4. a) State five requirements that hoardings erected must comply with. (5 marks)
- b) i Identify two reasons why works must be insured. (2 marks)
 - ii Give three types of information that KPLC may require prior to power connection. (6 marks)
- c) Explain the roles of the following parties in a construction site.
 - i. Architect
 - ii. Engineer
 - iii. Contract manager. (3 marks)
 - d) Differentiate the following terms,
 - i. Tender and tendering
 - ii. Open tendering and selective tendering. (4 marks)
- 5. a) Define the term 'site organization'. (2 marks)
- b) With the aid of simple diagrams, explain the two forms of organization structures. (8 marks)
 - c) Explain the term workmen Indemnity. (2 marks)
 - d) Write in full meaning of the following abbreviations.
 - i. OSHA
 - ii. WIBA. (4 marks)
 - e) Identify two rights of workers according to OSHA. (2 marks)