



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

..... YEARSEMESTER EXAMINATION FOR

..... IN BUILDING TECHNOLOGY

SITE AND WORKSHOP MANAGEMENT

DATE:

TIME:

INSTRUCTIONS TO CANDIDATES

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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 carefully 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.
 - Architect
 - Engineer
 - Contract manager. (3 marks)
 - (d) Differentiate the following terms,
 - Tender and tendering
 - 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.
 - OSHA
 - WIBA. (4 marks)
 - (e) Identify two rights of workers according to OSHA. (2 marks)