

MACHAKOS UNIVERSITY

University Examination 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF BUILDING AND CIVIL ENGINEERING FIRST YEAR FIRST SEMESTER EXAMINATION FOR

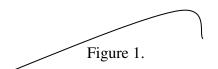
DIPLOMA IN BUILDING TECHNOLOGY BUILDING CONSTRUCTION 1

DATE:17/4/2019 TIME:8.30-11.30 AM

INSTRUCTIONS

Answer all the five questions

- 1. a) State:
 - i. Five items that may be considered in site clearance. (5 marks)
 - ii. TWO methods of clearing a construction site. (2 marks)
 - b) Figure 1 below shows a sloping site.



- i. Describe TWO methods of achieving a level foundation trench. (4 marks)
- ii. State the most economical foundation that may be used in this situation.

(1 mark)

- c) State TWO functional requirements of a good foundation. (4 marks)
- d) Sketch and label a traditional strip foundation. (4 marks)
- 2. a) Describe any FOUR forms of wall construction. (10 marks)
 - b) Differentiate between a D. P. C and a D. P. M. (5 marks)

	c)	Differentiate between a door frame and a	door lining.	(5 marks)
3.	a)	Make neat sketches of any TWO types of match-boarded doors naming all the		
		members.		(10 marks)
	b)	Make a neat sketch of a door frame and r	name all the parts.	(5 marks)
	c)	Briefly outline the evolution of the built	environment	(5 marks)
4.	Outline two duties of each of the following members of the building team:			
	a)	contractor		
	b)	client		
	c)	quantity surveyor		
	d)	clerk of works (20		narks)
	e)	architect		
5.	a)	Sketch the following types of foundations		
		i. pad foundation		
		ii. Stepped foundation		
		iii. wide strip foundation		
		iv. deep strip foundation		(16 marks)
	b)	State two functions of windows		(4 marks)