



MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR SECOND YEAR SECOND SEMESTER EXAMINATIONS

FOR THE

DIPLOMA

IN

CIVIL ENGINEERING

DCE 066 COURSE CODE:

COURSE TITLE: CIVIL ENGINEERING CONSTRUCTION

DATE: FRIDAY 22ND APRIL 2022 TIME: 8.00AM -10.00AM

INSTRUCTIONS:

- a) Answer Question ONE and any other TWO Questions
- b) Marks for each question are indicated in the parenthesis.
- c) Examination duration is 2 Hours
- d) Use of Mobile phones is NOT ALLOWED in the examination room.

MMUST observes ZERO tolerance to examination cheating, This Paper Consists of 2 Printed Pages. Please Turn Over.

QUESTION ONE – COMPULSORY (30 MARKS)

V	a) b) c)	Highlight TWO building code requirement for foundation Explain any THREE method of demolition State any THREE factors to consider in design and choice of particular to	[3Marks] [4 Marks] [2 Marks]
		i) Deep strip foundationii) Raft foundation	
(a) a) b) c) d)	State THREE negative effects of dams on the environment Explain THREE causes of retaining wall failure	[1Marks] [4 Marks] [9 Marks] [6 Marks]
	a) b)	STION THREE (20 Marks) Explain the term building services Name any FIVE factors considered while designing drainage works With aid of sketch describe working principal of a septic tank Describe any TWO floor finishes	[1 Mark] [5 Marks] [8 Marks] [6 Marks]
	a b	What is a waterfront structure Describe three types of water front structure Describe a labeled section through a railway line Explain the function of each of the following parts of a railway truck i) Sleeper ii) Ballast iii) Sub-grade	[1 Marks] [9 Marks] [7 Marks] [3 Marks]
		 ESTION FIVE (20 Marks) a) What is a retaining Wall b) Describe any THREE type of retaining walls c) State FOUR stability requirement of a retaining wall d) Briefly describe the common materials used for holding walls 	[1 Mark] [9 Marks] [2 Marks] [8 Marks]