



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

## (A Constituent College of JKUAT) (A Centre of Excellence)

## Faculty of Engineering &

## Technology

## DEPARTMENT OF BUILDING & CIVIL ENGINEERING

**DIPLOMA IN BUILDING & CIVIL ENGINEERING** 

ECV 2303: CIVIL ENGINEERING CONSTRUCTION II

SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: OCTOBER 2012 TIME: 2 HOURS

Instructions to Candidates: You should have the following for this examination

Ma Th	- Answer Booklet s paper consists of <b>FIVE</b> questions. Answer any <b>THREE</b> questions ximum marks for each part of a question are as shown is paper consists of <b>TWO</b> printed pages <b>testion One (20 Marks)</b>	
b)	<ul><li>Define Dredging and hence describe various methods used in dredging.</li><li>With a well labeled diagram describe any two types of dredging plants.</li><li>Briefly describe the following methods of reclamation.</li><li>i) Dyke</li></ul>	(5 marks) (5 marks)
	ii) Filling	(10 marks)
Qu	estion Two (20 Marks)	
	<ul><li>Using a well labeled diagram, describe various railway components.</li><li>What do you understand by the following terms used in railway design?</li><li>i) Horizontal curve</li><li>ii) Vertical curve</li></ul>	(8 marks)
	iii) Gradient	(6 marks)
c)	Briefly elaborate on signs and signals that are applied on railway station.	(6 marks)
Question Three (20 Marks)		
Describe any FOUR forms of crossing drainage giving its:		
	Functional requirements when constructing. Describe the construction any two types of bridges.	(8 marks) (12 marks)
Qu	estion Four (20 Marks)	
,	Describe any <b>TWO</b> types of dams and hence explain the methods of construction of	each dam. (10 marks)
b)	<ul> <li>Briefly describe the following types of wads.</li> <li>i) Earth</li> <li>ii) Gravel</li> <li>iii) Macadam</li> <li>iv) Bituminous</li> <li>v) Concrete</li> </ul>	(10 marks)
Qu	estion Five (20 Marks)	
a)	Using a well labeled diagram, explain one method of highway drainage.	(10 marks)
b)	Briefly elaborate TWO methods of pavement construction.	(10 marks)