

## MURANG'A UNIVERSITY OF TECHNOLOGY

### SCHOOL OF ENGINEERING AND TECHNOLOGY

### DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

### UNIVERSITY ORDINARY EXAMINATION

2018/2019 ACADEMIC YEAR

# **THIRD** YEAR **SECOND** SEMESTER EXAMINATION FOR, DIPLOMA IN CIVIL ENGINEERING

SEB 1338 - TRANSPORTATION II

**DURATION: 2 HOURS** 

DATE: 20/12/2018

TIME: 9 - 11 A.M.

#### **Instructions to candidates:**

- 1. Answer question One and Any Other Two questions.
- 2. Mobile phones are not allowed in the examination room.
- 3. You are not allowed to write on this examination question paper.

## SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

## QUESTION ONE (30 MARKS)

a.	Define the following terms as used in transportation engineering;			
	i.	Wagon		
	ii.	Coaches		
	iii.	Wet dock		
	iv.	Dry dock	(8 Marks)	
b.	State	State the advantages and disadvantages of railways transportation as compared to road		
	transp	portation	(6 Marks)	
c.	Differ	rentiate between displacement light and displacement load	(4 Marks)	
d.	Highl	ight FOUR routine maintenance that is carried out on a railway line	(4 Marks)	
e.	Using a well illustrated sketches, describe the following types of rail joints;			
	i.	Supported joints		
	ii.	Suspended joints	(4 Marks)	
f.	State	the factors to consider when selecting a site for airports	(4 Marks)	
SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION				
QUESTION TWO (20 MARKS)				
a.	State	the requirements of a good airport	(4 Marks)	
b.	Discu	ss the maintenance of a flexible airfield pavement	(16 Marks)	
OI	IESTI	ON THREE (20 MARKS)		
a.		rentiate between a harbor and a port	(6 Marks)	
b.	Expla	in the drawbacks of ocean transportation	(14 Marks)	
QUESTION FOUR (20 MARKS)				
a.	Expla	in different Ballast material that are used in railway line	(8 Marks)	
b.	b. Using well illustrated sketches, discuss the different types of crossing in railway line (12 Marks)			