

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering and Technology

DEPARTMENT OF MECHANICAL AND AUTOMOTIVE ENGINEERING

DIPLOMA IN MARINE ENGINEERING (DMAE 2)

EMR 2123 MARINE ENVIRONMENT II

END OF SEMESTER EXAMINATIONS

YEAR 1 SEMESTER 2

SERIES: DECEMBER, 2013

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- 1. You should have the following for this examination:
 - Answer Booklet
 - Scientific Calculator
- 2. This paper consists of **FIVE** Questions.
- 3. Answer **ANY THREE** Questions.
- 4. This paper consists of *THREE* printed pages. **Question ONE**

(a)	Define the following terms as used in Annex I of MARPOL 73/78 on Regulations for the prevention of pollution by oil.				
	(i)	Tank			
	(ii)	Slop tank			
	(iii)	Oil tanker			
	(iv)	Crude oil tanker			
	(v)	Combination carrier			
	(*)	Comomation carrier	(10 marks)		
(b)	-	in Regulation 8 (Duration of Certificate) of Annex I of MARPOL 73/78 on e prevention of pollution by oil.	Regulations (10 marks)		
Ques	tion TW	O			
(a)		he operations for cargo/ballast operations (oil tankers), when the Oil Record	l Book shall (10 marks)		
(b)	Define the following terms as used in MARPOL 73/78:				
	(i)	Sea			
	(ii)	Dumping			
	(iii)	Chemical Tanker			
	(iv)	Wastes or Other Matter			
	(v)	Liquid Substances			
			(10 marks)		
Ques	tion TH	REE			
(a)	Define the following terms as used in the convention on the prevention of Marine leading of wastes and other matter:				
	(i)	Vessels and aircraft			
	(ii)	Special permit			
	(iii)	General permit			
	(iv)	The organization			
	(v)	Authority	(10 marks)		
(b)	Explain the following categories of Noxious Liquid substances:				
	(i)	Category A			
	(ii)	Category B			
	(iii)	Category C			

	(iv)	Category D	(10 marks)
Que	stion F	OUR	(10 marks)
(a)	State	the full meaning of the following abbreviations:	
	(i)	MARPOL	
	(ii)	IBC code	
	(iii)	SOPEP	
	(iv)	IOPP	
	(v)	IMO	
			(10 marks)
(b)	Ship	s carrying noxious liquid substances in bulk are subjected to the surveys be	elow:
	(i)	Initial survey	
	(ii)	Periodical survey	
	(iii)	Intermediate survey	
	(iv)	Annual survey	
	Expla	ain each of the above surveys.	(10 1)
Ques	stion FI	VE	(10 marks)
(a)	Defin	ne the following terms:	
	(i)	Noxious Liquid Substance	
	(ii)	Product carrier	
	(iii)	Harmful substances	
	(iv)	Sewage	
	(v)	Crude oil	(10
(b)	Define the following terms:		(10 marks)
	(i)	Clean ballast	
	(ii)	Segregated ballast	
	(iii)	Special area	
	(iv)	Ship constructed	
	(v)	Existing ship	
			(10 marks)
			(20 111111119)