CBCS SCHEME

USN			18MR63
		Sixth Semester B.E. Degree Examination, Jan./Feb. 202	3
		Marine Electrical Technology	
Tim	e: 3		Marks: 100
Note: Answer any FIVE full questions, choosing ONE full question from each module.			
		Module-1	
1	a.	Write a short note on: i) Effects of inclination ii) Hazardous areas	(12 Marks)
	h	i) Effects of inclination ii) Hazardous areas Explain the common system for distribution of AC power.	(08 Marks)
	b.	C Y	
		OR	(OA Manles)
2	a.	Define the types of tanker installations.	(04 Marks) (10 Marks)
	b.	Write a short note on Shore supply	(06 Marks)
	C.	Draw a neat sketch of a ship's typical electrical distribution system.	(00 Marks)
		Module-2	
3	a.	Briefly explain detection and clearance of an Earth fault.	(10 Marks)
	b.	What is an AVR? Mention the operating principle an AVR.	(03 Marks)
	c.	Write a short note on: i) Effect of kW loading ii) Effect of KVA loading.	(07 Marks)
		OR	
Explain the two synchronizing method used on boardship with the help of a			eat diagram.
			(20 Marks)
		Module-3	
5	a.	Briefly explain the classes of insulation.	(10 Marks)
3	b.	Write a short note on: i) Cable sheath ii) Cable gland.	(10 Marks)
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_		What are the signals for a power driven ship under way (night)?	(12 Marks)
6	a.	What is HCLPMFL? Explain the working with a schematic diagram.	(08 Marks)
	b.		
		Module-4	(10 Mayles)
7	a.	Explain the working of a cycloconverter with the help of a neat diagram.	(10 Marks) (10 Marks)
	b.	Briefly explain the layout and optimizing storage space.	(10 Marks)
		OR	
8		What do you mean by electrohydraulic steering system? Also explain the for	ir RAM type of
	Θ	steering system.	(20 Marks)
		Module-5	
9		Briefly explain Cathodic protection system	(20 Marks)
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		OR	
10		Write a short note on:	
		i) The combustible Gas Indicatorii) Portable Oxygen Analyzer	
		ii) Portable Oxygen Analyzer iii) Tankscope	
		iv) Fixed Oxygen Analyzer (Monday cell type)	(20 Marks)
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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.