

## Sixth Semester B.E. Degree Examination, Dec.2016/Jan.2017 Marine Electrical Technology

Time: 3 hrs. Max. Marks: 100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

		PART – A	
1	a. b.	Draw and explain construction and working of brushless alternator.  Draw and explain construction and working of automatic voltage regulator.	(12 Marks) (08 Marks)
2	a.	Explain the construction, working, charging, and discharging of lead acid batter sketch.	y with neat (10 Marks)
	b.	Explain share supply connection box with neat circuit sketch.	(10 Marks)
3	a. b.	Explain the various distribution systems used onboard with neat sketch. Explain the construction and working of synchro-scope with neat sketch.	(10 Marks) (10 Marks)
4	a. b. c.	Explain star delta starts with neat sketch. Explain single phasing with neat sketch. Explain soft starts with neat sketch.	(10 Marks) (05 Marks) (05 Marks)
PART – B			
5	a.	Explain navigational light circuit with neat sketch.	(10 Marks)
	b.	Explain CO <sub>2</sub> cabinet door alarm with neat sketch.	(10 Marks)
6	a.	Explain the various testing done using megger on 3¢ induction motor with neat sk	etch.
	b.	Draw the construction circuit diagram of megger.	(15 Marks) (05 Marks)
7	a. b.	Draw and explain basic turbo-electric propulsion system. Explain Ex'd', Ex'e', Ex'p', 'N', Ex'i' equipments.	(10 Marks) (10 Marks)
8	a. b.	Explain DO's and DO NOT's when working with electrical equipment.  Explain electrical shock and sketch the caution board for electrical shock risk.	(10 Marks) (10 Marks)

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