Dute: 02/12/2015.

Student Exam No.

GANPAT UNIVERSITY

B. Tech. Semester: V (Marine) Engineering

Regular Examination Nov – Dec 2015

2MR505 Marine Electro Technologies

Time: 3 Hours

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Total Marks: 70

6

6

12

Instruction: (1) Attempt all Questions.

(2) Assume suitable data if necessary.

(3) Start new Question on New Page.

Section - I

Que. -1 a) What are the basic indicators available on the Emergency Switch board?

b) Explain effects of temperature on electrical equipment on board a ship?

OR

Que. –1	a) Why is shore supply required ? Explain with the diagram of	6
	Shore supply Arrangement.	
	b) List the Important features in a Modern AVR.	6
Que. – 2	a) Why AC distribution preferred over DC distribution on board a ship?	6
	b) What is single phasing? List the causes of the same	5
	OR	
Que. – 2	Write short notes on Auto-synchronising.	5
	Explain - Why Diesel Electric propulsion system is economical?	6

Que. - 3 Explain – Operation of a brushless Alternator. (Sequence wise)

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	Section – II			
Que. – 4	a) What precautions must be taken before working on High-Voltage	6		
	Equipment.			
	b) List the main Features of the Maintenance –free Sealed Lead acid Batteries.	6		
	OR			
Que. – 4	a) What is Auxiliary Steering Gear?	3		
	b) Explain - "Rudder Position Indicator"	3.	0	
-	c) Briefly Explain the purpose of a Space heater fitted in alternator.	6		
Que. – 5	a) List the Advantages and Disadvantages of MCB's.	6		
	b) List the Indicators provided for monitoring the operating conditions	5		
	of the steering gear motor.			
OR				
Que. – 5	a) What arrangement is used In Battery charging equipment? List the	6		
	Types of Charge for a storage battery.			
	b) Explain the Emergency Generator's Routine Testing Procedure through the Fl chart.	ow 5		
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Que. – 6	910 · · · · · · · · · · · · · · · · · · ·	6		
	b) What safety precautions are to be taken after any maintenance /	6		
	Repair is carried out on a generator?			
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