Q.P. Code: 02063

MARINE ENGINEERING & CONTROL SYSTEM – III

[Time: $2^1/_2$ Hours]	s:75]
Please check whether you have got the right question paper. N.B: All Questions Are Compulsory. Marks Are Indicated Against Each Question.	
Q.1 a. What do you understand by the term sensor and transmitter? b. Sketch and describe working of a diaphragm valve used in a continuous control system to control the flow of liquid.	5 ol 10
OR	
a. What is the automatic process control system?b. Explain with the help of sketch "Proportional Control System".	5 10
Q.2 a. Explain working of centrifugal brake of life boat winch. b. What is meant by data logging? Describe a data logging system suitable for an automated engine room.	5 10
OR	
a. Explain the checks to be carried out before starting a diesel Engine.b. What do you mean by term survey? Explain the types of survey and importance of the same.	5 10
Q.3 a. Sketch and describe a smoke detector. b. Sketch and describe a fixed foam installation as fitted on an oil tanker. OR	5 10
a. Sketch and describe a Heat detector. b. Sketch and describe "Bulk chemical powder" fire extinguishing system for LPG Carriers?	5 10
Q.4 Write short notes on following. a. Feed back in control system b. Deck seal unit	5 5
c. Smoke helmet	5
OR	
Write short notes on following?	
a. Open loop control system	5
b. Classification Society	5
c. Fire suit	5
(Turn Over)	

Q.P. Code: 02063

Q .5	Write short notes on following.	
	a. Transmitter and Actuator	5
	b. Bow Thruster	į
	c. Breathing Apparatus	į
	OR	
	Write short notes on following?	
	a. Remote level gauge	į
	b. Ballasting operation	į
	c. 02 Analyzer	