Q.P. Code: 02064

## MARINE ENGINEERING & CONTROL SYSTEM — III

[Tim	e:	2 <sup>1</sup> / <sub>2</sub> Hours]	<b>75]</b>
		Please check whether you have got the right question paper.  N.B: All Questions Are Compulsory, Marks Are Indicated Against Each Question	
Q.1		What are the differences between a transducer and a transmitter?  Explain with the help of a sketch the working principle of a Bourdon's pressure gauge.  OR	5 10
		Explain the advantages and disadvantages of electrical and pneumatic system.  Explain with the help of sketch proportional control system.	5 10
Q.2		State the checks that you will carry out before starting the Life Boat engine. What information has to be exchanged between ship and terminal & terminal and Ship before loading?	5 10
		OR O	
		Write a short note on butterfly valve. What is the limitation of classification society? Differentiate between statutory and classification survey.	5 10
Q.3	a.	Sketch and describe a Fixed Foam Installation as fitted on an oil tanker for fighting fire on deck. <b>OR</b>	15
	a.	Enumerate the three types of fire detectors used in a fire alarm System. Explain with sketch working principle of any one of the fire detectors above.	15
Q.4	a.	Explain the importance of boat and fire drills conducted on board a vessel.	5
	b.	Sketch and describe working of Bow thruster of a ship.	10
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	a.	How do infrared temperature sensors work?	5
	b.	Sketch and describe working principle of explosive meter.	10
Q.5	a.	What are the checks to be carried out while starting any diesel Engine?	5
	b.	Sketch and describe Flame type fire detector	5
	c.	What are the different methods of starting life boat engine?	5
	33	OR OR	
	5	Write short notes on	
	a.	Draft gauge	5
	b.	Initial survey and intermediate survey	5
	c.	Fire suit	5