ONE TIME EXIT SCHEME

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USN		10MR53

Fifth Semester B.E. Degree Examination, April 2018 Marine Internal Combustion Engine I

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

		PART - A	
1	a. b.	or promited the stroke port tilling tragiam.	(10 Marks) (10 Marks)
2	a. b. c.	What is crankshaft? Write different types of crankshaft and ex Explain about types of wear in liner. Draw and explain hydraulic exhaust valve.	plain. (10 Marks) (05 Marks) (05 Marks)
3	a. b.	What is scavenging? Explain inflow scavenging with neat sketch and write down its Explain loop and cross flow scavenging with neat diagram. Validadvantages.	(02 Marks)
4	a. b. c.	What is constant pressure turbocharging and pulse type tur advantages and disadvantages of both. Explain turbocharger surging and reasons for surging. Explain various parts of turbocharges and write down the turbocharges.	(10 Marks)
		PART – B	
5	a. b. c.	Describe briefly about factors affecting combustion. What is flash point and calorifre value? Explain the functions and requirements of fuel injectors and faults.	(05 Marks) (05 Marks) write down the fuel injector (10 Marks)
6	a. b. c.	Draw and explain freshwater cooling system. Explain briefly about cooling in piston and what are all the cooling. Write about flow of piston cooling oil in 2 stroke piston and 4 s	(0=3=
7	a. b. c.	What is crankcase explain and how to prevent it? Explain starting air line explosion. Write about causes, indications and prevention measures for sca	(05 Marks)
8	a. b. c.	Write briefly about the developments in Marine internal combus What is stroke–Bore ratio? AND short stroke? What is long stroke and super long stroke? Write the advantages	stion engine. (10 Marks)

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(05 Marks)