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Sixth Semester B.E. Degree Examination, Dec.2019/Jan.2020
Marine Internal Combustion Engines - II

Time: 3 hrs.

Max. Marks:100

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

PART - A

- 1 a. Explain about the Balancing of the Engines. (10 Marks)
 b. How to check the fuel injection pump timing. (10 Marks)
- 2 a. What is local or emergency manoeuring on ship? (10 Marks)
 b. Explain the safety points for Remote manoeuring system of marine engine. (10 Marks)
- 3 What is indicator Diagram and its types? What is the purpose of Taking Indicator Diagram, and how to take Indicate Diagram? (20 Marks)
- 4 a. Explain the action taken when the Lub oil temperature is abnormally high. (10 Marks)
 b. Why exhaust valve burn? What are the cause of Exhaust valve burning? (10 Marks)

PART - B

- 5 a. What are the design features for marine gas turbine plants? (10 Marks)
 b. Explain : (10 Marks)
 i) Shell and tube type heat exchanger.
 ii) Plate type heat exchanger.
- 6 a. What is Governor and its types? Explain the function of Governor. (10 Marks)
 b. Define the following : (10 Marks)
 i) Governor Droop
 ii) Compensation
 iii) Hunting
 iv) Isochronous Governor
 v) Governor maintenance.
- 7 a. Difference between oil cooled piston and water cooled piston (10 Marks)
 b. What is the function of piston rings and what are the causes of piston ring failure. (10 Marks)
- 8 a. What is the function of crosshead and explain why crosshead bearing is prone to failure? (10 Marks)
 b. Explain about the Fuel oil Treatment. (10 Marks)
