

GANPAT UNIVERSITY

B. Tech.: VI Semester Marine Engineering

Regular Examination April – June 2017

2MR606 MARINE BOILERS

Time: 3 Hours

Total Marks: 60

- Instruction:** (1) Attempt all Questions.
(2) Assume suitable data if necessary.
(3) Figure to right indicates full Marks.
(4) Question: 3 in Section 1 and Question 6 in section 2 are compulsory
(5) Start new Question on New Page.

Section - I

- Que.-1 Explain what all problems can occur if raw or contaminated water is used in Boiler 10
OR
Que.-1 Describe Boiler mountings in detail by explaining purpose of each fitting. 10
Que.- 2 Describe with sketch Dual Evaporation Boiler. 10
OR
Que.- 2 List essential Monitoring and Safety features installed in Auxiliary Boiler on Merchant vessels 10
Que.-3 Describe in details Boiler Water Treatment and Objectives of the same. 10

Section – II

- Que.- 4 Define Refractory and discuss the use of refractory materials used in Marine boiler. 10
OR
Que.- 4 Explain : (a) Air Fuel Ratio Control System. (b) Viscosity Control with regards to Boiler 10
Que.- 5 Explain Packaged Boiler Control System in Detail. 10
OR
Que.- 5 Sketch and explain Rotary Cup Burner. 10
Que.- 6 Describe the process of raising steam from cold condition in Boiler 10

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