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10MR44

Fourth Semester B.E. Degree Examination, June/July 2017
Ship Structure & Construction

Time: 3 hrs.

Max. Marks: 100

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

PART – A

- 1 a. Describe with the aid of sketches, the terms (i) Camber (ii) Sheer (iii) Rise or Floor (iv) Flare. What is the purpose of these? (12 Marks)
- b. Define the following terms:
(i) LBP (ii) LOA (iii) Displacement (iv) Dead weight (08 Marks)
- 2 a. Explain metallic and argon arc welding. (12 Marks)
- b. Sketch and describe types of joints and edge preparation for construction of ship structure. (08 Marks)
- 3 a. Draw and explain double bottom. (10 Marks)
- b. What are the different types of keels? Explain duct keel. (10 Marks)
- 4 a. Draw and describe horizontal sliding water tight door. (12 Marks)
- b. Write short notes on deep tanks. (08 Marks)

PART – B

- 5 a. Draw and explain types of rudders. (14 Marks)
- b. Differentiate between Cruiser stern and Transom stern. (06 Marks)
- 6 a. Draw and explain load line and each draught significance. (10 Marks)
- b. Explain briefly floating dry dock launching. (10 Marks)
- 7 a. Sketch and explain midship section of container vessel. (10 Marks)
- b. Write short notes on cargo gas venting system and COW. (10 Marks)
- 8 a. Write short notes on surveys. (10 Marks)
- b. Write a short note on IBC₂IGC. (10 Marks)

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Important Note : I. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
II. Any revealing of identification appears to students shall be reported to the concerned authorities.