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Fourth Semester B.E. Degree Examination, June/July 2015
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 of 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. What are different types of Beam's, Plates, Angle's used in construction of ship-structure?
b. What are different types of welding? Explain metallic arc welding. (12 Marks)
c. Sketch and describe types of joints and edge preparation for construction of ship-structure. (08 Marks)
- 3 a. Sketch and describe solid and bracket floors. (10 Marks)
b. Sketch and describe deep tank hatch. (10 Marks)
- 4 a. Draw and explain water-tight bulkhead. What are test to be carried out? (12 Marks)
b. Draw and describe a vertical sliding water tight door. (08 Marks)

PART – B

- 5 a. Sketch the construction of a bulbous bow and briefly. Comment on the advantages of fitting this bow to certain vessel's. (10 Marks)
b. What are types of rudder's? Explain semi-balanced rudder. (10 Marks)
- 6 a. Draw and explain load-line and each draught significance. (10 Marks)
b. What are different types of launching? Explain briefly floating dry-dock launching. (10 Marks)
- 7 a. Sketch and describe mid-ship section of bulk carrier. (10 Marks)
b. With reference to ship's transporting liquefied petroleum gases (LPG), describe fully refrigerated system. (10 Marks)
- 8 a. Write down all Marpot Regulation's and when it came into existence. (10 Marks)
b. Write a short note on SOLAS. (10 Marks)

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