Fourth Semester B.E. Degree Examination, Dec.2016/Jan.2017 Ship Structure and Construction

Time: 3 hrs. Max. Marks: 100

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

| | | PART – A | |
|---|----------------|---|---|
| | | Define following terms with help of neat sketch: i) free board ii) rise of floor iii) tumble home iv) L.O.A Describe longitudinal bending of a vessel. | (10 Marks) (10 Marks) |
| _ | a. b. | Explain with neat sketch metallic arc welding and argon arc welding. Explain types or testing of welds. | (10 Marks) |
| _ | a. b. | Sketch and explain double bottom of an oil tanker. Sketch and describe about shell and deck plating and with example. | (10 Marks (10 Marks |
| ł | a. b. c. | What are bulkheads? Explain function of bulkheads. Explain about deep tanks. Explain with neat sketch the basic working principle of horizontal sliding water | (05 Marks (05 Marks tight door (10 Marks |
| | | PART – B | |
| 1 | a. b. c. | What are the regulations for collision bulkheads? Explain the arrangements to resist panting. Explain briefly about types of rudder. | (04 Marks (06 Marks (10 Marks |
| | a. b. | Sketch the plimsoll load line marking carved on a ship indicating its dimensions. Explain life saving appliances on board. | (10 Marks |
| 7 | a. | Briefly explain different type of tank system been introduced in liquefied gas carr | iers. (10 Mark |
| | b. | Explain the essential constructional differences between the following types of vei) Oil tanker in bulk carrier ii) Container ship. | |
| | | | |

* * * *