

GANPAT UNIVERSITY

B. TECH SEM-III Marine) REGULAR EXAMINATION- NOV-DEC 2016

2MR303 SHIP STRUCTURE & CONSTRUCTION

Time: 3 Hours

Total Marks: 60

- Instruction:** (1) This Question paper has two sections. Attempt each section in separate answer book.
(2) Figures on right indicate marks.
(3) Be precise and to the point in answering the descriptive questions.

Section - I

- Que. 1** (a) Define the following: Keel Plate, Sheet Strake, Garboard Strake, and Stringer Plate. (4)
(b) Write short note on : Panting Stringer, Collision Bulkhead & Bulbous bow (6)

OR

- Que.1** What are main stresses a ship undergoes based on which the construction of ship is designed? (10)
- Que.2** (a) What is the difference between upper and lower bearing of rudder arrangement? (5)
(b) What is the advantage of High Tensile Steel over Mild Steel as ship construction material? (5)

OR

- Que. 2** Sketch and Describe Midship Section of a Welded Ship showing Main Deck, Underdeck or Second Deck along with other strengthening members. (10)
- Que. 3** (a) Enlist the functions of Bulkhead in a Ship? (5)
(b) Compare the use of Transom Stern with Cruiser Stern. (5)

Section II

- Que.4** Explain following : (Any five) (10)
- 1) International Load Line
 - 2) Plimssole line
 - 3) Gross Tonnage
 - 4) Net Tonnage
 - 5) Panama and Suez Canal Tonnage
 - 6) Compensated gross tonnage

OR

- Que.4** Describe Registration procedure of a merchant ship. (10)
- Que.5** Mention the Important Points to be Considered While Preparing For Load Line Survey On Ships. (10)

OR

- Que.5** What are the Conditions for assignment of freeboard? (10)
- Que.6** (a) How offshore drilling is carried out? What is Dynamic Positioning System? (5)
- (b) Draw Load Line Markings. (5)

-----END OF PAPER-----