

CBCS SCHEME

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18MR44

Fourth Semester B.E. Degree Examination, Dec.2023/Jan.2024 Ship Structures and Construction

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 Explain the following terms and abbreviations:
i) L.O.A ii) L.B.P. iii) B. Ext. iv) D.Mld v) d. Ext vi) round of beam
vii) shear viii) Rise of floor ix) light weight x) Tumble home. (20 Marks)

OR

- 2 Explain the following stresses in ship's structure in detail:
i) Hogging ii) Sagging iii) Pounding iv) Panting v) Racking. (20 Marks)

Module-2

- 3 Explain the following constructions of Bottom and side framing:
i) Double bottoms ii) Watertight floors iii) Duct keel iv) Tank side bracket. (20 Marks)

OR

- 4 Explain the following constructions of After end arrangements:
i) Cruiser stern ii) Transom stern iii) Spade Rudder and open water stern. (20 Marks)

Module-3

- 5 Explain the following construction of shell and Deck's:
i) Bulwark ii) Deck Girders iii) Deep tank Hatch iv) Hatch wedges. (20 Marks)

OR

- 6 Explain the following constructions of Bulkheads and Deep tanks in detail:
i) Welded water tight bulkhead ii) Vertical sliding water tight door. (20 Marks)

Module-4

- 7 Explain in detail about freeboard markings and tonnage mark with the help of a neat sketch. (20 Marks)

OR

- 8 a. Explain the role of Surveyors in construction of ship. (10 Marks)
b. Draw/sketch a layout of shipyard, fabrication assembly, subassembly and units of construction. (10 Marks)

Module-5

- 9 With the help of a neat sketch, explain Ore carrier in detail. (20 Marks)

OR

- 10 a. Draw a midship section of a liquefied gas carrier. (10 Marks)
b. Draw a midship section of a chemical carrier. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42+8 = 50, will be treated as malpractice.