

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
END SEMESTER EXAMINATIONS – DECEMBER 2019
B.Sc. (Nautical Science)
Semester: II
UG21T3204- Ship Construction

Date: 08-01-2020

Max Marks: 70

Time: 3 Hours

Pass Marks: 35

Note-Question No-1 is compulsory.

Answer any 6 questions from the remaining 7 questions.

Use of Non Programmable scientific calculator is permitted.

Q1) (5X2=10marks)

- a)What is the advantage of corrugated bulkhead over the conventional bulkhead?
- b)What is the use of strum box?
- c)Why are the air pipes fitted in the tanks?
- d)What are freeing ports?
- e)Write any two precautions while welding?

Q2) (2x5=10marks)

- a)Sketch and label the longitudinal system of framing used on ships?
- b)Sketch and label the corrugated bulkhead?

Q3) Sketch and label the Aftpeak tank ? (10marks)

Q4) (5x2=10marks)

- a)Sketch and label the anchoring arrangement on the forecastle Deck?
- b)Sketch and label the sounding pipe & Air pipes on the deck?

Q5) (5x2=10marks)

- a)Sketch and label the Bitter End connection of the anchor cable?
- b)Sketch and label the ventilators on the deck?

Q6) (10marks)

Sketch and label the ballast line system and pumping arrangements?

Q7) (5x2=10marks)

- a)Write a short note on stern frame ?
- b)Sketch and label the semi balanced rudder arrangement on a ship?

Q8) (5x2=10marks)

- a)Explain Controllable Pitch Propeller (CPP)?
- b)Give any five advantages of welding over riveting in ship construction?