

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
End Semester Examination Dec 2019/Jan 2020
B.Sc. (Nautical Science)
Semester -II
UG21T4204-SHIP CONSTRUCTION

Date: 8-01-2020

Max Marks: 70

Time: 3 Hour

Pass Marks: 35

Note-Question No-1 is compulsory.

Answer any 6 questions from the remaining 7 questions.

Use of approved type scientific calculator is permitted.

Q1. (5x2=10marks)

- a)What is collision bulkhead?
- b)Sketch and Describe Bilge Keel?
- c)Why are the air pipes fitted in the tanks?
- d)What is the purpose of strum box ?
- e)Write any two defects of welding ?

Q2. (5x2=10marks)

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

Q3. (10marks)

Sketch and label the Aft peak tank ?

Q4. (2x5=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. (2X5=10marks)

- a)Sketch and label the different mooring lines used on the ship for making fast the ship alongside the jetty?
- b)Sketch and label the ventilators on the deck?

Q6. (10marks)

Sketch and label the ballast line system and pumping arrangements?

Q7. (2X5=10marks)

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

Q8. (2X5=10marks)

- a)Explain controllable pitch Propeller?
- b) Describe the destructive and non destructive tests which may be carried out on the welding material or welding joint?
