

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
End Semester Examination Dec 2019/Jan 2020
B.Sc. (Nautical Science)
Semester -V
UG21T2504-Naval Architecture -V

Date: 23.12.2019
Time: 3 Hours

Max Marks: 70
Pass Marks: 35

Part A

Note: Attempt any 3 questions. All questions carry equal marks.

10x3=30 Marks

- Q1. Draw the midship section of chemical tanker.
- Q2. Why Steel is the widely used material for construction of ship.
- Q3. Explain in sequential manner the shipyard practice and procedures before the ship construction actually starts.
- Q4. Explain few test procedures for testing different types of welding joints.

Part B

Note: Attempt any 4 questions. All questions carry equal marks.

Non-programmable scientific calculator is permitted.

M.V.Hindship Table is permitted.

4x10=40 Marks

- Q5) One side of a tank is vertical, rectangular bulkhead 15 m long and 10 m high. Find k_p (the height of the cop above the bottom of the tank) when the tank has sw in it sounding of 10 meters.
- Q6). A box shaped vessel 50m long and is floating on an even keel at 4m Draft.an amidships compartment is 10m long and is empty. Find the Increase in draft if this compartment is bilged.
- Q7). How carrying deck cargo, effects the stability of ship? Explain.
- Q8). Discuss effect of increasing the freeboard of ship on ship's stability.
- Q9). Calculate the righting moment of M.V.Hindship at an angle of heel of 10° in condition no.4.
-