

**INDIAN MARITIME UNIVERSITY**  
(A Central University, Government of India)  
END SEMESTER EXAMINATIONS – DECEMBER 2019

**B.Sc. (Nautical Science)**

Semester: IV

**UG21T2410- SHIP OPERATION TECHNOLOGY-IV**

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Date: 21-12-2019

Max Marks: 70

Time: 3 Hours

Pass Marks: 35

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**Note : Question No. 1 is compulsory.**

**Answer any 6 from remaining 7 questions, all carry 10 marks each.**

**Scientific calculator is permitted if required.**

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1. Write notes on the following :- (5x2=10 Marks)
  - a. Stockless Anchor
  - b. Immersion suit
  - c. Precaution for using hand tools
  - d. Use of EE BD onboard ship
  - e. Use of radio communication equipment
  
2. How you will secure the ship's anchor before proceeding for sea ?. (10 Marks)
  
3. Explain the following :- (2x5=10 Marks)
  - a) Safety precautions when anchoring?
  - b) Fire prevention and fire fighting appliances?
  
4. Describe the procedure for anchoring and precautions to be taken. (10 Marks)
  
5. Explain the terms: (2x5=10 Marks)
  - a) MOB Marker
  - b) Line Throwing Apparatus
  
6. a)Elaborate the term "Fire Drill", explain its importance onboard ship.  
b)Describe safety procedure when entering battery room. (2x5=10 Marks)
  
7. Explain the procedures and precautions for rigging a pilot ladder. (10 Marks)
  
8. Explain the following :
  - a)Fixed Foam fire fighting system on board oil tankers?
  - b)GMDSS's role in Search and Rescue of ships? (2x5=10 Marks)

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