

**INDIAN MARITIME UNIVERSITY**  
(A Central University, Govt. of India)  
**B.TECH (MARINE ENGINEERING)**  
**END SEMESTER EXAMINATION – DECEMBER 2017**

Sub Code: UG11T1201/T2201

Date : 02.1.2018

Sub Name: Seamanship, Elementary Navigation & Survival at sea.

Max Marks: 100

Semester: II

Pass Marks: 50

**Part A (3×10 = 30)**

**Compulsory Question**

- 1) (a) How look out is maintained? Discuss with watch schedule?  
(b) What are the alarms mentioned in the muster list?  
(c) What all the methods are there for Launching of inflatable life raft?  
(d) What are Fore-mast, Main-mast, Mizzen-mast ?  
(e) What all departments are there on board of a sailing ship?  
(f) What is Monkey Island?  
(i) What led to the development of the ISPS Code?  
(j) What are Meaning of flag represented: -E, Q, S & W  
(k) What is cable stopper?  
(l) What is the use of canvas on board?

**Part B (5×14 = 70)**

**Answer Any Five of the following**

- 2) (a) Discuss the Maintenance and care of steel weir rope.  
(b) What is heaving line and mooring line?  
(c) What is the function of Rat guard? 8+4+2
  
- 3) a) Describe various routine safety drill and exercise carried out on board of a merchant ship?  
b) How HRU functions in a life raft? 10+4
  
- 4) (a) Briefly discuss the convention MARPOL and SOLAS . 14
  
- 5) a) What all life saving equipments are there in a life boat ?  
b) What all pyro-techniques are carried in a life raft?  
c) What is immersion suit ? 9+3+2
  
- 6) (a) Briefly discuss the function of a marine sextant with sketch?

(b)What do you understand by true course and true bearing while measuring by a marine compass? 10+4

7) (a)Sketch and describe a Patent Stockless anchor?

(b)What is lugless shackle used for joining cable?

(c ) What do you understand by term “ bitter end “ and “ hose pipe” in relation to anchoring process ? 9+3+2

8) (a) Define the term celestial sphere, celestial pole, celestial equator, celestial meridian, ecliptic.

(b)What are star charts? How it is used?

(c) Write short note on Polaris. 7+4+3

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