

~~UG11T2201~~

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
