

INDIAN MARITIME UNIVERSITY

(A Central University, Government of India)

End Semester Examination Dec 2019/Jan 2020

B Tech (Marine Engineering)

Semester –II

UG11T1201/2201- Seamanship, Elementary Navigation and
Survival at Sea

Date: 31.12.2019

Max Marks: 70

Time: 3 Hours

Pass Marks: 35

Part – A (compulsory)

Answer the following (10x2=20 Marks)

- 1) Where are these area located on board – Poop deck , Fore castle and bridge.
- 2) What are the bad weather precaution taken in the engine room?
- 3) What is the use of canvas on board ship?
- 4) What is the function of cable stopper?
- 5) How many numbers of stars are visible with naked eye? Among them how many Selected stars having special status in the field of celestial navigation.
- 6) What is time zone ?
- 7) What is rescue boat?
- 8) What is master list ?
- 9) What are the pyrotechnics carried in a life raft.
- 10) What is ISPS code ?

Part – B

Answer any 5 out of 7 questions (5 x 10= 50 marks)

11. a) Discuss the Maintenance and care of steel wire rope.
b) What is the function of a mooring system? (8+2)
12. a) Describe 3 important safety drills and exercise carried out on board of a merchant ship?
b) How HRU functions in a life raft? (7+3)
13. a) Briefly discuss the convention MARPOL and STCW. (10)
14. a) What all life saving equipment's are there in a life raft ?
b) What all marking are there in inflatable life raft? (8+2)
15. a) Briefly discuss the operation of navigational compass, echo sounder and barometer?
b) What is gyrocompass? (8+2)
16. a) Sketch and describe a Patent Stockless anchor?
b) What do you understand by term " bitter end " and " hawse pipe" in relation to anchoring process ? (8+2)
17. a) What is the regulatory requirement for a life boat engine ?
b) What is free fall life boat ? Where it is located on board ?
c) What is tripping pendant and bowing tackle of a life boat ?
d) What is embarkation ladder? When it should be used ?
(4+2+2 +2)