

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)

May-June 2018-END SEMESTER EXAMINATION

B.Sc (Nautical Science)

Semester: V

Bridge Equipment, Watch Keeping & Collision Prevention - V
(UG21T2502)

Date: 04-07-2018

Time: 3 Hrs

Max Marks -70

Pass Marks – 35

Note: Question No. 1 is compulsory, attempt any six questions from remaining seven. All carry equal marks (10 each)

1. Write short notes on the following. (2x5=10)
 - (a) Define tilt and drift of gyroscope.
 - (b) Types of information provided by Automatic Identification system (AIS).
 - (c) Various Modules of VDR.
 - (d) Expand BNWAS & SSAS.
 - (e) How many Parts and Sections are there in COLREG 1972.

2. Briefly explain latitude error, speed error with respect to Gyro Compass. (10)

3. What standard information are transmitted by AIS transducers and what data is fed in it ? (10)

4. (a) What are the various benefits of VDR ? (5)
(b) Explain BNWAS and its various alarm stages. (5)

5. Describe the following: (5x2=10)
 - (a) Ship's reporting system and various types of messages to be sent.
 - (b) The responsibilities of a Power Driven Vessel when under way as per COLREG-1972, Rule No.18.

6. Explain the circumstances when Officer Of the Watch shall call the Master. (10)

7. Describe the following: (5x2=10)
- (a) Preparations (checks) you will carry out before proceeding to sea.
 - (b) What all are benefits (advantages) of ship's routing system?
8. Write down all the distress signals used on board ship, when a ship is in distress at sea, as per Annexe IV of COLREG. (10)
