INDIAN MARITIME UNIVERSITY

(A Central University, Government of India)

End Semester Examination Dec 2019/Jan 2020

B.Sc. (Nautical Science)

Semester -V

UG21T2502- Bridge Equipment, Watch Keeping & Collision Prevention

Paper –V

Date: 21.12.2019 **Max Marks: 70**

Time: 3 Hours **Pass Marks: 35**

Note: Question No. 1 is compulsory, attempt six questions from remaining seven. All Questions carry equal marks.

Q1. Write short notes on the following (5X2=10 marks)

a) Define tilt and drift of gyroscope.

b) Precautions during use of AIS for collision avoidance.

c) Various Modules of VDR.

d) NUC vessel.

e) How many Parts and Sections are there in COLREG 1972?

Q 2. Briefly explain Gyroscopic Inertia and Precession. (10 marks)

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

Q 4. What is the concept and purpose of Voyage Data Recorder (VDR)? (10 marks)

Q 5. Explain BANWAS and its various alarm stages. (10 marks)

Q 6. Explain the circumstances when Officer of the Watch shall call the Master? (10 marks)

Q 7. List out ten preparations /checks required to be made by OOW in the bridge prior to departure from port. (10 marks)

Q 8. What is ship's routing system and what are the advantages of ship's routing system? (10 marks)

Q 9. Write down all the distress signals used on board ship, when a ship is in distress at sea, as per Annex IV of COLREG. (10 marks)
