

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

May/June End Semester Examinations  
B.Sc. (Nautical Science) Sixth Semester  
(AY 2013-14 to 2015- 16 batches only)

**Bridge Equipment, Watchkeeping & Col. Reg. - VI (UG21T2602)**

Date : 05.06.2017

Maximum Marks: 70

Time: 3 Hrs

Pass Marks : 35

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Note: Answer **Any Seven** questions. All questions carry equal marks.  
(7 x 10 marks = 70 marks)  
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1. What is heeling error effect in a magnetic compass and how is it corrected?
2. What care and maintenance should be carried out for a wet card compass?
3. What are the advantages of ECDIS? Enumerate the differences between Raster Chart and Vector Charts.
4. What data is transmitted by LRIT? Who are the recipients of the data? Differentiate between AIS and LRIT.
5. As an OOW of a navigation watch, what actions will you take for safe navigation in restricted visibility?
6. What do you understand by maintaining situational awareness during navigational watch? What monitoring activities are required for the same?
7. What factors will you consider while determining the composition of a Navigational watch?
8. Discuss the possible causes of collision between two vessels while entering/leaving harbour
9. List all the Distress Signals as per Annexure IV of COLREG.

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