

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

June 2017 End Semester Examinations
Diploma in Nautical Science – First Semester

Navigation II: Bridge Equipment, Watch keeping and Meteorology
(UD11T 2105) - (Aug' 2012 to Feb' 2015 batches onwards)

Date: 20.06.2017
Time: 2 Hrs

Maximum Marks : 70
Pass Marks : 28

SECTION A

(40 Marks)

Note: Attempt any four Questions from this section all Questions carry equal marks.

1. Draw a layout of the Bridge and Label the following Navigational Equipment.
 - a. Steering console
 - b. Radar
 - c. Master Gyro
 - d. Gyro repeaters
 - e. VHF Radio
 - f. Speed log
 - g. Chart table
 - h. Clear view screen
 - i. GMDSS console
 - j. Fire Detection panel
2. In a magnetic compass what is a luber line? What are the advantages and limitations of a Magnetic compass?
3. Describe as per International Regulation for Prevention of Collision at sea.
 - (a) What are the duties of lookout?
 - (b) Explain safe speed.
4. Define the following terms (as per COLREGS Rule No.3)
 - (a) Vessel constrained by her draft
 - (b) Vessel not under command
 - (c) Power driven vessel
 - (d) Vessel under way
 - (e) Vessel engaged in fishing

5. State and draw the shapes shown by the following vessels by day:
 - (a) Vessel not under command
 - (b) Vessel engaged in dredging operations
 - (c) Engaged in fishing Vessel
 - (d) Vessel at anchor (length < 100m)
 - (e) Vessel constrained by her draft.

SECTION B

(30 Marks)

Attempt any Three questions.

6. Define
 - (a) Isobar
 - (b) Barometric Tendency
7. Write short notes on:
 - (a) DALR
 - (b) SALR
8. Explain greenhouse effect and global warming.
9. What are the precautions to be observed while recording Dry and Wet Bulb temperatures.
