

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

June 2016 End Semester Examinations
B.Sc. (Nautical Science) - 2013 batch onwards
Semester III
Meteorology-I
(UG21T2311)

Date : 16.07.2016//F.N

Time: 3 Hrs

Maximum Marks: 70

Pass Marks : 35

NOTE: Attempt any SEVEN questions. All questions carry equal marks
Use of Non-programmable scientific calculator is allowed.

7x10=70

- 1) Write notes on:
 - a) Conduction, convection and radiation.
 - b) Evaporation, condensation and precipitation.
- 2) Describe heat budget of the earth and the atmosphere.
- 3) Explain horizontal and vertical distribution of atmospheric pressure and resulting circulation.
- 4) From a vessel on a course of 243° (T) at 12 knots, the apparent wind was observed to be 120 at 15 knots. Find the direction and speed of the true wind.
- 5) Write short notes on:
 - a) Cirrus cloud, b) Cumulus cloud c) Stratus cloud d) Cumulonimbus Cloud
- 6) Write short notes on:
 - a) Drizzle, b) Snow c) Dew d) Mist
- 7) Describe radiation and advection fog and effect of fog
- 8) The atmospheric humidity is expressed in a number of ways. Describe different forms of humidity.
- 9) Explain with simple diagram the composition, physical properties and vertical layers of the Earth's atmosphere.