

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

May/June 2016 End Semester Examinations
B.Sc. (Nautical Science) - Second Semester (2013 batch onwards)

Meteorology - III (T 2507)

Date : 12.07.2016

Time: 3 Hrs

Maximum Marks: 70

Pass Marks : 35

Attempt any 7 questions out of 9 questions. All questions carry equal marks.

1. a) Describe Anabatic and Katabatic winds and their effect on marine life. (5)
b) Define Doldrums and ITCZ. (5)
2. a) What do you understand by the term ‘‘frontolysis’’ ? (3)
b) Discuss the weather pattern before, during and after the passage of COLD FRONT. (7)
3. What is Air Mass? Explain various types and properties of Air Mass. (2+8)
4. a) Write down various parts of weather bulletin forecast on Indian coast. (5)
b) Explain different types of formats for the weather codes as available for reporting. (5)
5. a) List down Meteorological information obtained from Monthly routeing charts. (6)
b) Describe: (i) Anti cyclone (ii) COL (4)
6. Write short notes on: (5 + 5)
a) Gradient wind b) Sea Breeze
7. a) Explain process of decay of ice at sea. (5 + 5)
b) Differentiate between Icebergs from Arctic Origin and Antarctic Origin
8. Define a) i) GROWLER ii) LEADS (4)
b) Describe the role of International –Ice- Patrol services towards maritime safety. (6)
9. Define following (10)
(a) Pre-Baratic Charts (b) Wave Isopleth Charts
(c) Synoptic Charts (d) Warm Front (e) Line Squall
