

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
END SEMESTER EXAMINATIONS- DECEMBER 2018
B.Sc. (Nautical Science)
SEMESTER-V
Meteorology Paper- I (UG21T3304)

Date: 03.01.2019
Time: 3Hrs

Maximum Marks: 70
Pass Marks: 35

Note: Question No. 1 is compulsory.

Answer any 6 questions from remaining 8 questions (each of 10 marks).
Scientific Calculator is permitted if required.

- Q.1. (a) Define Dew Point Temperature. (2 x 5 =10 marks)
(b) State the difference between Isobar & Isallobar.
(c) Define Precipitation.
(d) State what is meant by Coriolis Effect?
(e) State the difference between Land & Sea breeze.
- Q2. (a) What are the various layers in which the Earth's atmosphere is divided & weather changes occur in which layer? (5 marks)
(b) What is Relative Humidity? Explain (5 marks)
- Q3. (a) Define pressure gradient? (5 marks)
(b) What is Diurnal Variation of pressure? (5 marks)
- Q4. (a) State "Buys Ballots" Law? (5 marks)
(b) A vessel is on a course of 045 degrees at a speed of 15 knots. The Apparent wind is from 100 degrees at 20 knots. Find the direction and speed of True wind. (5 marks)
- Q5. (a) Describe Principal forms of Precipitation? (5 marks)
(b) How are clouds formed and name any five types of clouds. (5 marks)
- Q6. (a) Define Visibility (5 marks)
(b) What are the different types of Fog? (5 marks)
- Q7. (a) What is Green-house effect & Global warming? (5 marks)
(b) List the causes of ocean currents. (5 marks)
- Q8. (a). Define Salinity (5 marks)
(b). What is a Tsunami? (5 marks)
- Q9. (a). Explain the use of whirling psychrometer? (5 marks)
(b). What is the principles of aneroid Barometer? (5 marks)
