

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
END SEMESTER EXAMINATIONS –JUNE 2019
B.Sc (Nautical Science)
Semester-III
Meteorology - I
UG21T3304

Date:15-07-2019

Time: 3Hrs

Maximum Marks: 70

Pass Marks: 35

Note : Question No. 1 is compulsory.

Answer any 6 questions from remaining. (Each of 10 Marks)

- 1) Define the following. (2X5=10 Marks)
 - a) Ionosphere
 - b) Solar radiations and terrestrial radiation
 - c) Ozone gas
 - d) Neap tide
 - e) DALR and SALR

- 2) a) Explain about Equatorial low pressure belt and Sub-Tropical High Pressure Belt. (5 Marks)
- b) Define Isobar and Isallobar. (5 Marks)

- 3) a) Explain Buy's Ballot law. What cautions while applying this law? (5 Marks)
- b) Write short notes on: (5 Marks)
 - 1) Drizzle
 - 2) Hail
 - 3) Snow
 - 4) Sleet
 - 5) Rain

- 4) a) Explain Advection fog and Radiation fog. (5 Marks)
- b) Explain importance of Relative Humidity. (5 Marks)

- 5) a) Write note on Effect of ocean currents on coastal climate. (5 Marks)
- b) Behavior of waves in deep and shallow water. (5 Marks)

- 6) a) Why salinity in the ocean sea vary horizontally? Explain. (5 Marks)
- b) Explain coriolis force. (5 Marks)

- 7) Why the amount of insolation received at the earth's surface vary?
Explain factors. (10 Marks)
- 8) Describe horizontal distribution of atmospheric pressure in details.
(10 Marks)
- 9) Describe the advantage of Whirling Psychrometer and explain the
precautions while using Whirling Psychrometer. (10 Marks)
