

INDIAN MARITIME UNIVERSITY
(A Central University Government of India)
END SEMESTER EXAMINATIONS-JUNE/JULY 2019
B.SC NAUTICAL SCIENCE
SEMESTER-III
METEOROLOGY PAPER-I
(UG21T2311)

Date: 18-07-2019

Maximum Marks: 70

Duration: 3 hrs.

Pass Marks: 35

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

Q.1 Describe the heat exchange process in details. (10 Marks)

Q.2 Write short notes on: (2X10=10 Marks)

- a) Insolation
- b) Terrestrial radiation
- c) Isobar
- d) Pressure gradient
- e) Beaufort scale

Q.3 Course 45° speed 15 knots. Apparent wind 100° at 20 knots. Find the direction and speed of true wind. (10 Marks)

Q.4 Draw and explain the Hydrological Cycle. (10 Marks)

Q.5 Explain the following: (2X5=10 Marks)

- a) Drizzle
- b) Hail
- c) Snow
- d) Sleet
- e) Rain

Q.6 Describe the process of formation of clouds. Classify clouds on the basis of height and explain which cloud yield the rain. (10 Marks)

Q.7 Explain Buy's Ballot's law. What cautions while applying Buy's Ballot's law? (10 Marks)

Q.8 Atmospheric humidity is expressed in a number of ways. Describe different forms of humidity and importance of relative humidity. (10 Marks)

Q.9 Explain the importance of each components the earth's atmosphere. (10 Marks)
