

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
END SEMESTER EXAMINATIONS – DECEMBER 2019
B.Sc. (Nautical Science)
Semester: IV
UG21T2411-Meteorology – Paper II

Date: 23-12-2019

Max Marks: 70

Time: 3 Hours

Pass Marks: 35

Note: Question No. 1 is compulsory.

**Answer any 6 questions from the remaining
Scientific Calculator is permitted if required**

1. Decode the following weather report. (10 marks)
BBXX ATVH 10123 99408 30492 41398
62828 10143 20082 40084 56028 76364
84364 22234 00175 20808 302// 41006
2. Write short notes on the following (5x2 marks)
 - a) Tides
 - b) Tidal streams
 - c) Hygrometer
 - d) Storm surge
 - e) Weather Facsimile Receiver
3. a) Explain the causes of ocean currents (5 marks)
b) Explain the effect of ocean current on climate (5 marks)
4. Explain the following
 - a) Sea waves
 - b) Swell
 - c) Tsunami
 - d) Bore tide
 - e) Stevenson's screen
5. a) Explain the relationship between tides and phases of moon (5 marks)
b) Name at least five shipborne meteorological instruments (5 marks)
6. a) Why coding and decoding of weather messages is required? (5 marks)
b) How weather reports are received onboard? (5 marks)
7. Describe the construction and use of whirling psychrometer and the precautions to be observed (10 marks)
8. a) What is the principle of aneroid barometer? What is it used for? (5 marks)
b) What is the periodicity of weather bulletins received onboard in different types of weather? (5 marks)
9. Explain
 - a) Behavior of wave in deep and shallow water (5 marks)
 - b) Difference between Prognosis and Analysis chart (5 marks)
