

COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

B.TECH. DEGREE IV SEMESTER EXAMINATION IN MARINE ENGINEERING JUNE 2020

MRE 1406 SEAMANSHIP AND NAVIGATION (2013 Scheme)

Time: 2hrs 30 Minutes [30 Minutes for Answering and Scanning/Uploading the page of the Answer Sheet per module]

Max. Marks: 70 (14 per module)

INSTRUCTIONS

1. You have to be available in Google Meet on demand by the faculty.
2. You have to share your '**live location**' to the faculty before uploading the answer sheet.
3. You have to answer only one question per module.
4. Answer may not exceed one page of an A4 size paper in a standard handwriting, as far as possible.
5. If at all an answer goes beyond one page, (due to your handwriting) another page can also be used. In such a situation, the page number should be given as 1/2, 2/2.
6. You have to put dated signature along with Register Number, Subject Code, Module/Group Number (as given in the Question Paper) in each page.
7. You have to put the Question Number correctly.
8. After answering the question, you have to scan and upload the answer page.

MODULE - I

(Answer **ANY ONE** question)

I(1). List out seven important equipments on a ship's bridge and state their functions in two lines each. (14)

OR

I(2). (a) What is the significance/ important equipment in: (8)

(i) Forecastle deck.

(ii) Steering platform

(b) What are the contents of chain register? (6)

MODULE - II

(Answer **ANY ONE** question)

II(1). (a) Write short notes on: (8)

(i) Bitter end

(ii) Kenter shackle

(b) List out four occasions which would require a ship to drop anchor. (6)

OR

II(2). (a) Sketch and label the different parts of an Admiralty type anchor. (8)

(b) State the immediate steps a vessel at anchorage can take if it has to berth urgently and the anchor is stuck at the sea bed. (6)

MODULE - III

(Answer *ANY ONE* question)

- III(1). (a) Explain the working and advantages of Radar. (8)
(b) What is the purpose of VDR? (6)
- OR**
- III(2). (a) Describe the functioning of AIS. (8)
(b) What are the circumstances in which the magnetic deviation can change significantly? (6)

MODULE - IV

(Answer *ANY ONE* question)

- IV(1). Make a musterlist for lifeboat stations assigning duties for total complement of twenty two persons. (14)
- OR**
- IV(2). (a) Describe the launching procedure of an inflatable liferaft without davits. (8)
(b) Name any six numbers equipment in a liferaft on a vessel on international voyages. (6)

MODULE – V

(Answer *ANY ONE* question)

- V(1). (a) Where will you find the MOB signal? What is its purpose? (8)
(b) What is a “Rescue boat”? (6)
- OR**
- V(2). (a) Sketch any four knots or hitches and indicate their purpose. (6)
(b) What are the entries to be made in an Oil Record Book? (8)
