

Indian Maritime University
(A Central University, Govt of India)

End Semester Examinations – June 2023

Programme Name: B Sc (NS) Semester: 6

Subject Code: UG21T4601 Subject Name: Voyage Planning & ECDIS

Date: 24.05.2023

Max Marks: 70

Duration: 03 Hrs

Pass Marks: 35

General Instructions

- (i) All Sections (A, B & C) are to be attempted.

Section A

Ten MCQs/Fill in the Blanks of 01 Mark each – Choose the most correct answer as applicable.

1. How are T&P Corrections made in the navigational charts.
 - a. Pencil
 - b. Violet Color Pen
 - c. Blocks
 - d. T&P corrections should not be applied on Charts

2. Passage Plan should be made from which point to which point?
 - a. Pilot Stn to Pilot Stn
 - b. Berth to Pilot Stn
 - c. Pilot Stn to Berth
 - d. Berth to Berth

3. The elements of Passage Planning in correct order is:
 - a. Appearance, Planning, Execution, Monitoring, Review
 - b. Appraisal, Review, Planning, Execution, Monitoring
 - c. Appraisal, Planning, Execution, Monitoring, Review
 - d. Approach, Planning, Exercise, Monitoring, Review

4. Guidelines for Voyage Planning is detailed in which of the following documents?
 - a. Solas Chap V
 - b. IMO Res A.893(21)
 - c. ISM Code
 - d. Voyage Planning Code

5. INDSAR was initiated by which of the following agency?

- a. ISRO
- b. Indian Navy
- c. DGS
- d. Indian Coast Guard

6. Which contour provides a boundary between safe and unsafe water

- a) Deep contour
- b) Shallow Contour
- c) Safety Contour
- d) Depth Contour

7. In ECDIS, ENC are classified as _____ type of charts.

- a. Raster
- b. Vector
- c. Scanned
- d. Paper

8. 3. Availability of ship repair facility at a port can be found in _____

- a) Distance Tables
- b) Mariners Handbook
- c) ALRS
- d) Guide to Port Entry

9. The satellite system which provides data and text communications on a store and forward basis, but does not offer voice communications is

- a) INMARSAT-C
- b) INMARSAT-B
- c) INMARSAT-A
- d) Fleet -77

10. For a passage from Mumbai to Kochi, which of the following publications will you use for obtaining coastal route information?

- a. Sailing Direction – West Coast of India
- b. Ocean Passage of World – Indian Ocean
- c. Mariners Hand Book
- d. Notices to Mariners

Section B

Five Questions of 02 Marks each

11. What information is available on a chart correction tracing? (any four)

12. What is UKC? How would you determine how much UKC to maintain in various legs of the passage?
13. What do you understand by the term "Least Time Track" in Weather Routing?
14. What do you understand by Bridge Resource Management.
15. List 4 types of information broadcasted under Nav Warnings.

Section C

Five Questions of 10 Marks each.

16. (a) Explain the general procedure for correction of charts using information from Weekly Notices to Mariners. {6 marks}
16. (b) List 4 publications which you would use for Paper chart Corrections. {4 Marks}
17. (a) Describe the Planning stage of a Passage Plan. {5 Marks}
17. (b) List 10 pubs which you would use for Passage Plan Appraisal. {5 Marks}
18. (a) Write a short note on INDSAR and list its different reports. {5 Marks}
18. (b) List any 5 objectives of Bridge resource Management. {5 Marks}
19. (a) Explain "Performance Standard of ECDIS"? {5 Marks}
19. (b) Write a short note on ENC Chart Quality. How is Zone "A1" & "C" depicted on chart? {5 Marks}
20. (a) Explain various components of a Shipboard GMDSS Station. {5 Marks}
20. (b) What is EPIRB? How does it work? Explain. {5 Marks}

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