

SECOND MATE OF A FOREIGN GOING SHIP
FUNCTION: NAVIGATION
PAPER: BRIDGE EQUIPMENT & WATCHKEEPING

TIME: 3 Hours

PASS MARKS: 100

MAX. MARKS: 200

Notes:

1. All Questions carry equal marks i.e. 25 marks each.
2. Attempt any 8 out of the 9 questions.

Q.1 a) Draw a neat sketch of compass binnacle and label various arrangements provided in it.
b) How will you plan a turn around an imaginary point? Describe the methods of execution and monitoring of the turn keeping Rate of Turn constant?

Q.2 a) Explain the operational and functional performance requirements of a Bridge Navigation Watch Alarm System.
b) What are the problems encountered in "ranging" method of the echo sounder? How is it minimized by "phasing" method?

Q.3 i) Describe the term GNSS.
ii) What is the difference between 3D position and 2D position?
iii) How does DGPS improve the accuracy of a normal GPS fix?

Q.4 What do you understand by the term 'chart datum'? Which default datum is used in GPS? Can a fix obtained from the GPS receiver be plotted directly onto a navigational chart?

Q.5 Briefly discuss the contents of the Bridge Procedure Guide (BPG). What does the Guide say regarding:
i) Bridge familiarization and ii) 'Standing Orders' by the master?

Q.6 a) State the general principle and reporting procedures of the Ship Reporting System.
b) State the advantages and disadvantages of the following MOB patterns: -
i) Williamson Turn
ii) Scharnov Turn and
iii) Anderson Turn

Q.7 As an OOW for safe & efficient "completion of voyage you need to keep some principles of BRM in mind. "Discuss of BRM in mind." Discuss the above statement with on board situation.

Q.8 a) List the immediate and subsequent actions that you will take in the event of M/E failure in a TSS.
b) As per the STCW 2010 Watch Keeping Standards, how will you take over an anchor watch at night in a congested anchorage?

Q.9 a) Define 'Squat'. State the factors that affect the amount of squat.
b) What is the effect on a vessel moving close to a solid wall or bank? Explain with neat sketches.

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1. Understanding the eBook Merchant Navy Exam Paper
 - The Rise of Digital Reading Merchant Navy Exam Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Merchant Navy Exam Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Merchant Navy Exam Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Merchant Navy Exam Paper
 - Personalized Recommendations
 - Merchant Navy Exam Paper User Reviews and Ratings
 - Merchant Navy Exam Paper and Bestseller Lists
5. Accessing Merchant Navy Exam Paper Free and Paid eBooks

- Merchant Navy Exam Paper Public Domain eBooks
 - Merchant Navy Exam Paper eBook Subscription Services
 - Merchant Navy Exam Paper Budget-Friendly Options
6. Navigating Merchant Navy Exam Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Merchant Navy Exam Paper Compatibility with Devices
 - Merchant Navy Exam Paper Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Merchant Navy Exam Paper
 - Highlighting and Note-Taking Merchant Navy Exam Paper
 - Interactive Elements Merchant Navy Exam Paper
 8. Staying Engaged with Merchant Navy Exam Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Merchant Navy Exam Paper
 9. Balancing eBooks and Physical Books Merchant Navy Exam Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Merchant Navy Exam Paper
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Merchant Navy Exam Paper
 - Setting Reading Goals Merchant Navy Exam Paper
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Merchant Navy Exam Paper
 - Fact-Checking eBook Content of Merchant Navy Exam Paper
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

-
- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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