

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.

Merchant Navy Question Paper

**Great Britain. Parliament. House of
Commons**

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Parliamentary Papers Great Britain. Parliament. House of Commons,1901 (Course of papers). Shipmasters' society,1898 **Parliamentary Papers** Great Britain. Parliament. House of Commons,1961 **Sessional Papers** Great Britain. Parliament. House of Commons,1901 Journal of the Royal United Service Institution ,1884 **The Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Lords,1984 Foreign Relations of the United States, Diplomatic Papers United States. Department of State,1960 *Papers Read Before the Engineering Society of the School of Practical Science, Toronto* ,1901 **The Third Mate** Frederick Griffith,1921 **Hansard's Parliamentary Debates** Great Britain. Parliament,1873 **The Parliamentary Debates** Great Britain. Parliament,1873 **Memoirs of a Spanner** Air Cmde K Sanjeevan, This book is about the experiences of an eighty four year old retired officer of the Indian Air Force He joined the Royal Indian Air Force in 1949 and retired as an Air Commodore from the Indian Air Force in 1986 The book includes his life as an enlisted airman his experiences as a qualified engineering officer in helicopter transport and fighter squadrons his training at the Defence Services Staff College Wellington and subsequent staff appointments and about his tenure as a military diplomat at the Indian Embassy in Moscow and appointment as the commanding officer of an Air Force Station Details of his life as an executive in Daimler Benz Aerospace for a decade after retirement are also mentioned in the narrative Reports from Committees Great Britain. Parliament. House of Commons,1874 *Nautical Magazine* ,1898 **Engineering** ,1875 **Parliamentary Debates** New Zealand. Parliament,1946 **The Engineer** ,1876 Shipbuilding & Shipping Record ,1917 *The London Quarterly Review* ,1876 **The Quarterly Review** ,1876

Reviewing **Merchant Navy Question Paper**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Merchant Navy Question Paper**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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