

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 Exam Paper With Answer Filer

**Rosina Ehmann**



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