

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 same 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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