#### GOVERNMENT OF INDIA

Date: - 12th Sept-2023

#### 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.

# **Merchant Navy Question Paper**

**Camilla Rothe** 

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