

Side then "Two prolonged and one short blasts" signal(s) to be sounded to indicate the intention to vessel being overtaken. (True / False)

9. CPA in Radar means Closest Point Applied (True / False)

10. The westernmost longitude reached by a TRS before recurving away from its predicted path is called a Vortex. (True/ False)

Section B

Short answer type questions

(2 x 5 = 10 Marks)

11. Write briefly about the LRIT information that is received by various parties.
12. Name at least six log books that are maintained on the bridge.
13. Explain the use of RADAR in context of COLREGS rule 5, Look-out.
14. Explain "Col" in brief.
15. Name any two major cold currents located in different ocean regions.

Section C

Answer five out of seven questions.

16. Describe the organizational structure of the bridge team with their roles in short and enumerate the Factors for Navigational watch composition (10 marks)

17. (2 x 5 Marks)
a. Explain visibility and how it is judged at sea and logged.
b. Explain the working of DGPS with a suitable sketch

18. Explain with a suitable sketch that a potential collision situation with two crossing power driven vessels in sight of one other can be divided into four different stages. (10 marks)

19. (2 x 5 Marks)
a. Explain the bridge duties associated when restricted visibility is expected
b. With suitable sketches explain the lights & shapes a vessel which is restricted in her ability to Manoeuvre will exhibit (except mine clearance vessels).

20. (2 x 5 Marks)
Course 308° speed 14.0 kts. Line of waves indicated the wind direction as 022° and anemometer bridge display showed wind speed as 18 kts.
a. State what entries are to be made in the ship's log-book with respect to wind direction & speed.
b. Also indicate in which direction a ball of paper thrown, will blow.

21. (2 x 5 Marks)
a. Explain the factors affecting RADAR detection.
b. Explain Stationary front with a proper diagram.

22 With a suitable sketch explain Rule of 1-2-3 with respect to TRS. **(10 marks)**



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