



UK MARINE TRAINING CENTER (UMTC)

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SAI POOJA BUILDING, SHOP NO. 4, PLOT NO. 36, SECTOR - 34. KAMOTHE, NAVI  
MUMBAI - 410 209 MAHARASHTRA, INDIA.

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## Class 1 Oral's Questions

Date: 22/08/2023

Examiner: Phillip Lewis

Candidate- Amit Meena (Pass)

Result: Pass

1. Type of ship you worked on.
2. Constructional Difference between 2 stroke and 4 stroke.
3. Purpose of crosshead(Transmit side thrust, guide piston rod, converts reciprocating to semi rotary motion and act as lube oil distributor to piston cooling, Guide and bottom end .
4. Material of crosshead guide(Cast steel) and shoe(White metal lined).
5. What is special about crosshead bearing.(Longitudinal and circumferential groove, Alluminium tin bearing, higher load carrying capacity)
6. Types of crankshaft.
7. What type of crankshaft in 4 stroke (Fully forged)and 2 stroke (Semi built or fully built) and why.
8. What is continuous grain flow in semi built crankshaft.(Even stress distribution)
9. How do you find out a crack in crankshaft.( Told him crystalline appearance and dye penetrant test), then he asked what are stress raisers ( Told him dent, corrosion, sharp edges which reduces fatigue strength of material)
10. What are the stresses acting on bulk carrier and oil tanker. (Told him racking, haggging, sogging but he wanted something else)
11. What precaution to take while loading cargo in bulk carrier.
12. What is GM.
13. Draw a diagram showing G, GM, B.
14. What is centre of buoyancy.
15. How will you assist superintendent in preparing for drydock.
16. Rudder checks in drydock.
17. Hull plate damage, how do you carry out the repair.(Shell expansion plan)
18. Enclosed space entry procedure.
19. Checks on gases and their allowable limits.(Told as per COSWP)
20. Turbocharger parts and their material.
21. How turbine blades are attached to shaft. (I told I am not sure)
22. Turbocharger surging reasons.



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23. Turbocharger damaged, how to take vessel to port safely without turbocharger. (I told as per Bypass arrangement)
24. Emergency generator regulations. (Told him as per mgn 52)
25. How emergency starts during blackout. (under voltage relay signals to Automatic starting unit)
26. Draw 4 Ram steering system and explain.
27. Reason for sluggish movement. (Leaking ram, Bypass valve, relief valve)
28. Reason for steering motor overheating. (Fan failure, Overloading, continuous running, misalignment, he wanted to hear single phasing)
29. Procedure for carrying out repair on electric motor.
30. Motor checks.
31. How much value for continuity test for healthy circuit. (I told nearly 1 ohm)
32. What is single phasing.
33. Checks on lead acid battery. How much should be specific gravity.
34. Checks on lithium ion battery.
35. How generator produces voltage.
36. Types of excitation system.
37. Draw static excitation system and explain.
38. What is residual magnetism. What to do if residual magnetism is not present. (Field flash)
39. Marpol Annex 6 explain about nox and sox regulations.
40. Nox reduction methods.
41. Co2 reduction methods.
42. Explain about IEEC.
43. What data need to be sent to administration annually as per chapter 4 of Annex 6. (I told as per data collection plan and operational carbon intensity plan)
44. Certificates as per marpol convention and their validity and frequency.
45. Certificates as per Solas and their frequency.
46. What is ISM.
46. What items in safety construction survey.
47. What items in safety equipment survey.
48. Whom will you inform if there is accident onboard a UK flag vessel. (Flagstate and MAIB)
49. What is MAIB and what do they check. Have you read any MAIB report.



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50. What is flag state.
51. What is port state control.
52. When will you inform to port state control and when will you inform flag state.
53. Sewage treatment plant failed, whom will you inform. (I told company, nearest port state and flag state)
54. What is CSM.
55. Type of fuel used onboard, ECA changeover procedure and effects of LSFO on engine.

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Shivaji Sir

ADITYA SIR