Oral Questions

Kin Yum, Jan/16

1. What is an acceptable reading for earth leak detection system (mega ohm rating)?
2. Earth lamps, draw and explain (wiring diagram).
3. Draw synchronizing lamps and explain.
4. You are in port and have completely shut down M/E for maintenance. After which you get a call from bridge that engines are needed for departure go through warm through process and preparations up to one hours' notice.
5. What is done at one hours' notice?
6. After boiler survey what is the process to complete in order to build up steam for operation?
7. One boiler gauge glass shows no water and other shows high, what are your actions?
8. Black smoke and sparks coming from funnel along with high temperatures in the funnel what do you do? What are possible causes? Ok it is an economiser fire what do you do?
9. You are in the engine room and you notice that the running M/E main L.O pump control cabinet is on fire, what are your actions?
10. The fire has escalated and you cannot fight it what do you do?
11. Explain procedure in full for the release of a fixed CO2 system.
12. Draw a boiler and economiser with all mounting (Attached in system).
13. Are the safety valve settings for the economiser and boiler set at different pressures? And if so why?
14. Bridge requires another genset for high load cargo operations what are the steps for synchronizing (full process diesel engine checks etc.).
15. Explain electrical understanding of phase alignment.
16. Explain the process of taking over an engine room watch.
17. What do you do on a daily engine room round?
18. What do you check in the steering gear compartment?
19. Draw M/E F.O system with pressures, temperatures and cft from storage tanks (for two stroke, HFO).
20. Draw an international shore connection and explain how it is used.
21. What is ISM, where is it from? What does it contain?
22. SMS " "
23. What legislation covers OHS for sea farers?
24. Draw a Start air system (for two stroke engine) and list all interlocks and safeties.
25. In relation to start air system what is a flame trap what does it do and how does it work?
26. How does the auto valve work and why is it needed?
27. What is the need for the F.O/air cut-off when starting?
28. What are all the MSB safety devices? (Ensure you know your reverse power in detail).
29. What is the need for the OMD and how does it operate?
30. What are the safeties on the main engine?
31. What are the boiler safeties?
32. What are all the components on the fire control plan?
33. Confined space, how do you prepare enter?
34. What gasses and levels do your gas detectors pick up? And what levels are acceptable?
35. What boiler water tests are done? What are the acceptable amounts for the tests?
36. What is scale in boilers, what problems does it cause?
37. You test for chlorine and the reading is high, what could this indicate?
38. Draw a fire main.
39. What do you do if you are in the E/R and you lose fire main pressure?
40. What do you cover on your induction, where does this come from?
41. How do you know the JCW level?
42. Reasons for soot fire?
43. How do you detect soot fire? Where do you direct boundary cooling?