CLASS 2

1. You have join a vessel as a 2\textsuperscript{nd} engineer, familiarization process?
2. What are your duties as a 2\textsuperscript{nd} engineer?
3. What is fire control plan and what can you find from there
4. Enclosed space entry according to Australian standard
5. What are the all hazards involving in enclosed spaces
6. What is intrinsically safe lamp
7. What are the toxic and explosive gases available in enclosed space
8. How do you know whether gas analyzer is showing a correct values
9. What is fire suppression
10. Engine room fire what is the important of isolation valve
11. What will be the temperature during a fire
12. Manual co2 releasing procedure
13. Why do you open main valve first
14. Draw a co2 main cylinder
15. Solas requirements for a co2 bottle
16. What is the important of a dip tube in co2 bottle
17. Explain about co2 system relief valve
18. What is it set point
19. What are the other systems available for fight fire
20. Draw and explain co2 system
21. What are the properties of co2 as an extinguishing medium
22. How do you connect international shore connection for fire main, draw and explain
23. Main engine safety devices fitted to starting air lines
24. Explain running direction interlock
25. If a bursting disk fails during maneuvering what are your actions
26. What are the requirements for crank case explosion relief valves
27. What is secondary explosion and how it occurs
28. What are the causes for crank case explosion( he is expecting cracked piston in 4 stroke engine and scavenge fire in 2 stroke engine)
29. Fill one machinery space operation in oil record book
30. Explain about nox emission
31. How do you find that on your vessel (nox technical file for each engine)
32. On board nox verification process
33. How often you need to carry out this.
34. Sox emission control
35. What are the documents you carried on board for prove sox emission (BDN) and how long do you need to carry that
36. What is the certificate issued for engine, regarding emission control? (EIAPP), explain it
37. How do you prepare a boiler for a survey
38. Boiler drain procedure
39. Why do you open vent valve
40. Draw a man hole and how do you safely remove it
41. Explain metal fire in boilers
42. What are the safety devices fitted for economizer to identify such fires
43. Draw a gauge glass and explain blow down procedure
44. Why do you open water cock first
45. All safety devices fitted to the boiler
46. Safety devices fitted to the main switchboard
47. How do you test reverse power and it’s set point for diesel engine
48. How do you manually synchronize a generator
49. What is the important of synchronous scope
50. How do you synchronize generator by lamps
51. Phase diagram for above process
52. Junior engineer reports you a generator trips due to reverse power, the prime mover is working perfectly, how do you identify the fault
53. How does main switch board connected to emergency switchboard, what are the interlocks
54. How do you connect shore power to the vessel
55. Working hours and rest hours for crew, how do you manage it to prevent fatigue