1. What do you do when you're on watch?
2. What are the normal parameters for a main engine then?
3. What are the main structural differences with a 2-stroke engine then?
4. What does the crosshead do?
5. How does the 4-stroke deal with these thrusts?
6. How is the piston cooled on a 4-stroke?
7. So on a 2-stroke what indications would you have of a scavenge fire?
8. So you start to suspect a scavenge space fire, what do you do?
9. Why do you turn the engine on the turning gear?
10. How would you know if there were any small seizures?
11. What if you don't have one?
12. How is the turning gear turned?
13. How would you see local overloading of an electric motor?
14. So on your rounds you find a fire in the purifier room what do you do?
15. So what fixed installations do you have?
16. Tell me about the hifog system.
17. Is it seawater or freshwater?
18. What pressures does it operate at?
19. Where can you activate it?
20. So the chief has asked you to go and check that it is running and you go to the hifog unit, what are you looking for?
21. Tell me about paralleling a generator.
22. Why do we close it at 5 to?
23. Ok tell me about bilges.
24. What are you looking for when checking bilges?
25. And what do you do with them when they are full?
26. And what about when the bilge tank is full?
27. Tell me about the OWS.
28. And can you use that anywhere?
29. What are the regs for using it?
30. Is that MARPOL?
31. Why must the ship be underway?
32. Ok what kind of pump would you use?
33. Why not a centrifugal pump?
34. What is a centrifugal pump made of?
35. What about the shaft?
36. If you took apart a centrifugal pump for maintenance what would you look for?
37. What is cavitation?
38. What else would you look for?
39. How would you check alignment of the shaft?
40. What about wear rings?
41. What do wear rings do?
42. Well you've been an engineer for 3 years now, give me an educated guess. (I said they were semi-sacrificial components of the pump that would show and allow for wear and could be replaced rather than replace the whole pump)

43. Where would the wear rings be?
44. if you were cleaning out the sewage plant what would you do?
45. What would you be testing for?
46. What about if you had 24% oxygen?
47. What else would you be testing for?
48. What is the lower flammable limit?
49. What does that mean though?
50. you said you'd have one man outside, what instructions would he have if there was a problem inside?
51. if you were asked to test batteries onboard, let's say lead acid, what tools would you use?
52. how would you test the battery?
53. right so what does a megger do?
54. oh so what would you be looking at?
55. what reading would you expect on a 24V battery?
56. would you expect an accurate reading with a voltmeter?
57. what else would you test?
58. what would you test the aid for?
59. what can you tell me about SECA?
60. if you're approaching a SECA what do you have to take account of?
61. So what is the sulphur content of diesel?
62. So what do you need to think about when you're switching over?
63. What about a ship with high sulphur and low sulphur fuels as opposed to hfo and diesel?
64. why don't you want hfo in your diesel?