1. What are the international codes & conventions, Name them?
2. How they get power in the Australian national law?
3. What is Nav. Act & Marine orders?
4. Explain when joining as a Master what you will check for? Full joining Procedure.
5. What is ISM, objectives, how you will implement it? Explain with details.
   SOLAS req. (plans, emergency procedures, check lists, DPA, safety meetings)
6. What are the Mandatory International & Australian requirements for Reporting?
   (Whenever an accident occurs to a ship or a defect is discovered the master or
   owner of the ship shall report at the earliest opportunity to the Administration,
   AMSA Form 18 Incident Alert [to be completed within 4 hours] and AMSA Form
   19 Incident Report [to be completed within 72 hours]
7. How many types of Charter Parties, Explain in details who pays to whom?
   What's the duration of Bare Boat charter? (Ans. Many years approx. 8 years)
8. What are the on & off Hire surveys?
9. What is the international inspection regime? (FSC-PSC-MOU)
10. What are the ISPS requirements? (Don't forget to mention ISS Cert.)
11. How will you know the port-ship security levels before & once joining?
    (Ans. Through the port's office & security checks-Maritime Security
    Identification Card (MSIC) & ships security signs)
12. How many security levels are there?
13. What are the statutory certificates & Documents should the vessel carry on
    board? What are their validities?
14. What are the attachments of the Certificates, Name them?
15. What is the load line survey, how you'll prepare your ship for it?
16. What's condition of assignment, what's the purpose of doing it?
17. How the load lines are calculated?
    (Length & type of the ship, Deck openings, Reserve buoyancy)
18. What are type A & type B ships? Why type A have less freeboard?
19. What is ESP?
20. Are there any difference on conducting the surveys on a 5 years old & 15 years old ships? (Yes, Type & age of the ship, More frequent & enhanced surveys for older ones)
21. What is certificate of entry? What does it cover?
22. What is P&I club? What does it cover?
23. What is General Average?
24. What are the objectives of OH&S?
25. Who is the HSR? What is his power?
26. How is he appointed?
27. What is PIN, PN?
28. What is BRM?
29. You are in a Bulk carrier what kind of documents will you carry on board to load Bulk cargo including Grain?
30. What is DOA?
31. What kind of notice will you issue to load Grain?
32. Draw a handy size 48000 DWT Bulk Carrier with 5 C. Holds & ask how to load a 42000t cargo (Sequence – considerations of local stresses – Ballast)?
33. How will you make sure minimizing the cargo stresses what you will consider while loading bulk cargo especially with high density ones? (Start with low rate loading+ spread the cargo on all the hold space+ synchronize ballast rate with cargo rate)
34. Draw the local stresses graph on the ship. (Shear Force + Bending Moment)
35. List the types of stresses experienced onboard the ship?
36. You are in a container ship loading DG cargo what kind of documents will the ship carry to load it?
37. What kind of notice will you issue to load such cargo?
38. Which M/O covers DG cargoes?
39. Your container ship is leaving the port very soon the port & pilot are urging you to leave a soon as possible while the lashing process is still undergoing, how you know that the lashing is correct?, will you accept to sail the ship with incomplete lashing?
40. What is the IMO visibility limits?
41. Your ship is loading in Singapore discharging in Melbourne, on which load line will you put your ship on once loaded? (Tropical load line)
42. Give a photo of a load line, asked you are loading in a river (Fresh water) where the water line will rest if you are going to summer zone? Draw the line & the corresponding draft.
43. You are loading in a Tropical zone port & discharging in Melbourne (Summer Zone), how much can you load considering a 2 days voyage? (Daily Consumption -TPC- ship's summer Deadweight)
44. What is DWT, GT, NT?
45. What are the seasonal zones? Why they constructed in such way in the globe? (Different zones different sea states & weather conditions in specific periods around the year also to make sure ships are seaworthy & maintaining enough freeboard (reserve buoyancy) at all times against worse conditions)
46. What is (FWA, DWA) Write the formulas? (very important to remember))
47. Draw a ship with angle of loll, where the B, M, G will be & draw the GZ? How you will correct the angle, which tank you will fill first?
48. Your ship is going to load an occasional 100 T load, Draw how the G will travel once the ship’s crane picks up the load?
49. Construct the GZ curve & explain it in details, & when at angle of loll how it will be?
50. What is the IMO minimum GM criteria for cargo ships? What about Grain?
51. Your Ch. Engineer came to you and said he have some necessary repairs with engine & it must be on engine control no more on Bridge control? Your Action as a master what are your concerns? (Ans. Don’t forget to mention informing the flag state regarding the safe manning & watch keeping arrangements)
52. How many Annexes in MARPOL? What Annex 3 & 4 talk about?
53. How you prepare your ship for Bunkering? While in Bunkering some drops have been noticed from bunker station flange, Action? (Ans. Immediately stop the operation, after necessary checking must order resuming with slowest rate to avoid accidental spillage)
54. What do you know about on-load & off-load release gear mechanisms?
55. Gave me a photo of the main launching release parts of L.B, How you make sure that the hooks are rested when L.B recovered?
56. How you’ll release the hooks on the off-load mechanism?
57. How often do you launch L.B, including FF L.B as per SOLAS?
58. What’s the simulation launch, does it excuse you not to conduct the mentioned launchings?
59. What are the Free Fall life boat requirements?
60. How often do you change wire falls?
61. What are the EDCIS requirements?
62. How you will know your ship is complaint to carry ECDIS? (Attachment Form E)
63. What kind of chart is approved on ECDIS? What about the officers training?
64. How many kind of charts are available for navigation? Name them? Which one is used for costal & port entrance?
65. What kind of radars do you have on board? Which one have the bigger scanner? Which one will you use for port entrance & 15 miles off the coast, explain why? Which one is more important & why?
66. You are in a right hand twin screw ship approaching the berth (on you stbd), how it will be behaving if you put the engines on astern?
67. What are the difference between Fixed Propeller & CPP? What is the advantage of CPP?

68. How you will prepare your big size Bulk carrier for anchor, what are your concerns? Full Procedures.

69. What is your action if your anchor drags, will you consider dropping the second anchor? (Ans. First action inform port authorities also alert the surrounding ships especially the closer ones)

70. What is your action if your Stbd anchor cable is crossing the bow? Will you consider dropping the second Port anchor? (Ans. No, avoid anchor fouling by using engine alter to port payout more cables accordingly)

71. R.O.R

1-Special marks? what their purpose. (may be used as markings a channel within a channel stbd & port hand shapes)

2-single green light (side light of sailing vessel, your action when coming from port bow. Rule 18)

3- 2 white lights with side lights what kind of ship? Could it be less than 50 m, Ans. Yes.

4-safe water marks?

5- What is isophase-occulting- flashing?

6- PDV showing green crossing from port bow, Action? (Rule 15, 17)

7- An aground ship a head, your action?

8-Restricted visibility, 2 ships a head on port & stbd bow both with risk of collision & third ship is on the stbd beam you are over taking it, what is your action? (Rule 19, alter course towards the third ship & clear both ship from your port side)

9- Fishing V/l lights, with mast light could it be more than 50m? Ans. No

10-Towing lights.

11-Flip Cards

12- Put 3 cardinal buoys inline on north-south direction:
From up – north cardinal, in Middle West cardinal, last- south cardinal
How you will pass them?

13-what is the duration of: 1-short blast. 2-long blast?

14-Asked to draw some daylight shapes?
Capt. Rosario is a very experienced mariner sometimes he would ask questions upon his own experience if the topics are getting much complicated or the candidate is not giving a straight answers or missing around, however he would always refer to the oral exam. Check list which is fair since it’s available for everyone. I wish a best of luck for the future Master class 1 candidates.