

PAST PAPERS

<i>Faculty</i>	<i>Department / Section/Division</i>
<i>Not Applicable</i>	<i>Learning Resource Centre</i>

Past Papers

Faculty of maritime science
Department of Marine Engineering
Engineering Class I
(Orals)
2013-2022

<i>Document Control & Approving Authority</i>		<i>Senior Director – Quality Management & Administration</i>	
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S.A.P.M. Samarasinghe - 2nd Attempt.

Examiner :- Mr. Chandhana & Mr. Yapa.

Date :- 01/08/2018.

Result - PASS

Time :- Approx. 3 hrs & 30 minute - 4 hrs.

- Introduce your self.

- ① What are the special features in ice class ship.
[I was sail on Lisbon Express (on 2010) & that was ice class ship.]
- ② Draw a cross sectional diagram of forward and Aft Construction of ice class ship.
- ③ What are the guideline you are [As a C/E] giving to chief officer prior to mooring operation.
- ④ What is snap back zone.
- ⑤ How to check mooring winch brake.
- ⑥ What are the indication when mooring winch comes to its replace-ble limit.
- ⑦ How to adjust the mooring winch brake.
- ⑧ Your hydraulic oil system oil level is low. what are the guide line as a chief eng. to give junior engineer who is going to refill the hydraulic oil tank.
- ⑨ What are the Lub oil properties of Gear oil.
- ⑩ Draw an explain ICCP system on board.
- ⑪ What are the method using for hull protection.
- ⑫ What are the material use for ICCP Anode.
- ⑬ What are the record (Parameter) taking on ICCP system to ensure ~~how~~ the system functioning properly.
- ⑭ How to check to function of ICCP system.
[He ask about the ICCP system fault finding procedure.]
- ⑮ What is the merchant shipping act and gazette number
- ⑯ How to carryout Cold ironing.
- ⑰ What is the procedure to connect high voltage system to the ship power connection. [Regarding the procedure for working on high voltage system]
- ⑱ What are the different between "permit to work" & "sanction to test."

- (19) Who is Authorized person & Competent person.
- (20) What is the procedure to do meggar test on high voltage system.
- (21) Why you disconnect earth during meggar test.
- (22) How to check polarization index.
- (23) Why you check meggar reading After 10 minute time period.
- (24) Why that reading [After 10 minute.] not taking on low voltage system.
- (25) What is the polarization index value to ensure motor in health condition.
- (26) What is CMS.
- (27) What is the requirement of qualification for C/E to Carryout CMS.
- (28) If first time ~~work~~ promising As a C/E. that C/E Can Carryout CMS.
- (29) What is the registered class of your last vessel.
- (30) What is HSSC
- (31) How to check the main engine turbcharger performance.
- (32) What are the method to deformation on Economizer tube.
- (33) What are the NO_x reduction method on board.
- (34) What are the parameter log in no_x technical booklet.
- (35) What is hotspot.
- (36) As a C/E how do you instruct your second engineer to order insulation material.
- (37) What are the emergency equipment on board.
- (38) What is the time interval to Carryout boiler internal survey.
- (39) What are the area check during boiler external survey.
- (40) What is the procedure to check boiler accumulation test & test time period with respect to water tube & fire tube boiler.
- (41) How to Carryout boiler ~~pop~~ safety valve Pop up test.
- (42) What is the safety equipment onboard.
- (43) How do you Carryout safety equipment survey onboard.
[Procedure to prepare safety equipment survey]
- (44) What is the procedure to Carry out cross head bearing survey.
- (45) If ship does not have facility to Connect shore power [Cold ironing] How do you Carryout Cold ironing on CARB area.

- 46) What is the regulation for CARB area cold ironing.
[exemption time period for connecting & disconnecting]
- 47) You are going to join the ship as a chief engineer. Now the ship is in China and next port is USA. You are onboard the ship by 0900 hrs and agent inform that off signing C/E will leave the ship by 1000 hrs and ship will sail out by 1100 hrs. AS a C/E how you take over the ship with in 01 hours period of time
- 48) Now the time is 1000 o'clock and C/E sign off. Captain ask the fuel figure of 1100 hrs and the same time you are getting ~~at~~ one hour notice. How do you calculate fuel figures [Estimated] for 1100 hrs. [Now time is 10.00 o'clock.]
- 49) What is SEEMP.
- 50) What are the ~~things~~ things contain in ship energy efficiency management plan.
- 51) What is the category [under which category] Propeller cleaning & hull cleaning contain in ship energy efficiency management plan.
- 52) What are the parameters are logged in SEEMP.



CLASS 1 ENG ORAL examination 2016 – (21.07.2016)

Attempt - 1st
Name - Malaka Gamage
Examiners - Mr. Bandula Kariyawasam &
Mr. P.V.T.P Chandana
Time duration - 1 hr. and 10 minutes.
Results - Pass

1. Tell me about your carrier
2. What was your last ship main engine?
3. What are the certificate related to an engine?
4. What are the certificates you should carry on board?
5. What is tonnage certificate?
6. What is the criteria of issuing a tonnage certificate?
7. What is meant by gross tonnage? And its use,
8. What is meant by net tonnage? And its use,
9. What is meant by multiple load lines?
10. From where we can find the requirements pertaining to certificates to be carried onboard?
11. What are the documents should carry onboard?
12. What is intact stability booklet?
13. What contain in it?
14. What are the codes coming under SOLAS?
15. ISM code, coming under what chapter?
16. Who is a manager? And who is a leader?
17. ISPS code, coming under what chapter?
18. What is chapter XI-1?
19. What are the differences between chapter XI- 1 and chapter IX?
20. IBC, IGC and IMDG under what chapter?
21. FSS code, LSA code under what chapters?
22. What requirements came for bulk carriers and tankers?
23. What is enhanced survey programme?
24. What are the corrosion types found in cargo holds of a bulk carrier?
25. What is the allowance for pitting corrosion on such ships?
26. Suppose you are removing a piston from ME, while the piston is hanging on the crane, a black out happened, what is your action?
27. What checks on a crane prior to carry out any work?
28. What checks on hook?
29. What checks on cable? Where SWL noted?
30. Your crane cable was replaced at last port, but again there is a need of to change the same, what could be the reason?
31. What is the principle of overhead crane brake?
32. What are the reasons for slipping a crane brake?

33. How you repair a faulty crane motor?
34. How you prepare for a class annual survey?
35. How you prepare for a safety equipment survey?
36. How you ready, life boat for the survey?
37. What safety equipments will check on bridge?
38. What are the bridge equipments coming under your responsibility?
39. GMDSS coming under what chapter?
40. What are radio equipments?
41. What is VDR and how you rectify any fault of VDR?
42. What is dispensation?
43. Tell me about automation survey?
44. ME LO pressure sensor how to check for survey?
45. A pressure gauge or a thermometer error how to check? And what is your action if found any?
46. How and where you log such error?
47. From where you can find maximum value allowed for such error?
48. Who is engine AB and engine rating?
49. What are the STCW key functions of both?
50. Captain ask the engine AB for mooring operations, will you send him?
51. How you update and upgrade you self for a new requirement? (Legislative requirement)