

CBCS SCHEME

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17MR81

Eighth Semester B.E. Degree Examination, July/August 2021 Engine Room Management

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. The vessel is coming into port after a long voyage. You are the officer on watch. How would you prepare the engine room for loading or discharge operations? (15 Marks)
b. What is an engine room log book? What entries are made in it? (05 Marks)
- 2 a. When the machinery spaces are in manned and "stand by" conditions what important machinery must the EOW start and why? (10 Marks)
b. What do you understand by "Chief Engineer's Standing Orders"? Write down 10 standing orders that you would give your watch Keeper. (10 Marks)
- 3 a. While on watch the emergency fire pump is not taking function. With respect to Engine Room Resource Management, what are the steps you would take? (10 Marks)
b. As a watch keeper, briefly explain the steps you would take, if the boiler low water level alarm is raised. (10 Marks)
- 4 a. With the help of a neat table, explain the common problems associated with a screw type pump also its causes and remedies. (10 Marks)
b. The fresh water generator shell temperature is high and you also notice a drop in the vacuum. What are the causes for this problem and what would be your actions taken. (10 Marks)
- 5 a. You are an Officer On Watch and while trying out the main engine, it does not start on air. What would be the causes and what are your actions as an OOW. (10 Marks)
b. The piston has been taken for overhaul. What are the things you would check and the clearance taken? Explain. (10 Marks)
- 6 a. Prepare a notice for engine room support staff stating 10 points of caution while working in an enclosed space like scavenge space in the main engine. (10 Marks)
b. During your watch there was an incident of scavenge fire in the main engine. Write a note addressed the chief engineer explaining.
i) How the incidence was detected ii) Subsequent action taken. (10 Marks)
- 7 a. Explain the procedure for liner removal and liner inspection of the main engine. (15 Marks)
b. Explain the things to be checked while taking piston ring clearances. (05 Marks)
- 8 a. Explain the procedure for main bearing removal for a main engine. (15 Marks)
b. Explain the various bearing clearances in a main engine. (05 Marks)
- 9 a. Explain the various methods for checking running motors. (10 Marks)
b. Write a brief note on High Voltage (HV) equipment testing. (10 Marks)
- 10 Enumerate the guide lines for the planned maintenance of an alternator. (20 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.