

# CBCS SCHEME

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15MR81

**Eighth Semester B.E. Degree Examination, November 2020**

## **Engine Room Management**

Time: 3 hrs.

Max. Marks: 80

*Note: Answer any FIVE full questions irrespective of modules.*

### Module-1

- 1 a. Explain in detail the emergency measures taken in case of flooding of engine room of an oil tanker. (08 Marks)  
b. Write a short note on Bad weather precaution. (08 Marks)
- 2 a. List the duties to be done in port watch keeping. (08 Marks)  
b. Explain in detail the emergency measures taken in case of major fire in machinery spaces in case of a chemical tanker. (08 Marks)

### Module-2

- 3 a. Explain in detail the trouble shooting of a heavy fuel oil purifier. (08 Marks)  
b. Explain dry docking inspections. (08 Marks)
- 4 a. Explain in detail decarbonization of auxiliary engine. (10 Marks)  
b. Explain maintenance of fresh water generator. (06 Marks)

### Module-3

- 5 a. What are the reasons for crank case explosion? Explain the actions to be taken in event of crank case explosion. (12 Marks)  
b. Write a short note on turbocharger surging. (04 Marks)
- 6 a. Define starting air line explosion write in detail the safety to be taken and action and prevention of starting air line explosion. (10 Marks)  
b. Explain the actions to be taken in event of exhaust uptake fire. (06 Marks)

### Module-4

- 7 Explain the inspection and maintenance of crankshaft and camshaft. (16 Marks)
- 8 a. List all the components of marine two stroke engine cylinder head. (06 Marks)  
b. Write a short note on cylinder lubrication. (06 Marks)  
c. List the various defects in linear. (04 Marks)

### Module-5

- 9 Explain the maintenance to be performed on :  
a. Electrical motors  
b. Transformers  
c. Circuit breakers  
d. Batteries. (16 Marks)
- 10 List the safeties provided in main switch board, and explain in detail the routine maintenance to be performed on it by the duty officer. (16 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.