

CBCS SCHEME

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18MR63

Sixth Semester B.E. Degree Examination, Dec.2023/Jan.2024 Marine Electrical Technology

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Write a short note on 'Effect of Inclination'. (10 Marks)
b. Sketch the degrees of freedom of a ship at sea. (10 Marks)

OR

- 2 a. Draw a block diagram of a ship's electrical system. (10 Marks)
b. Write down the danger signals for malfunctioning of electrical equipment. (10 Marks)

Module-2

- 3 Explain parallel operation of alternators in detail. (20 Marks)

OR

- 4 Explain about fault protection devices in detail. (20 Marks)

Module-3

- 5 Explain classes of insulation in detail. (20 Marks)

OR

- 6 Explain in detail about navigation of signal lights. (20 Marks)

Module-4

- 7 a. Write down the advantages and disadvantages of electrical propulsion. (10 Marks)
b. With the help of a basic schematic diagram, explain a basic turbo-electric propulsion system. (10 Marks)

OR

- 8 Explain in detail about SIMAR drive cycle – the drive with the cycloconverter. (20 Marks)

Module-5

- 9 a. Write down the characteristics of a good primary cell. (10 Marks)
b. Draw a flow chart for classification of lead acid batteries. (10 Marks)

OR

- 10 Explain about Gas Analysis in detail. (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.