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10MR64

Sixth Semester B.E. Degree Examination, June/July 2018

Marine Electrical Technology

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART – A

- 1 Draw brushless generator and explain. (20 Marks)
- 2 a. With block diagram, explain in detail about shore supply. (10 Marks)
b. Draw emergency battery circuit and explain. (10 Marks)
- 3 Draw emergency power supply for both 440 V and 220 V. (20 Marks)
- 4 a. Brief star-delta starter used in marine electrical motor with neat sketch. (10 Marks)
b. What is meant by insulation and how it is classified? (10 Marks)

PART – B

- 5 a. Write a brief note on Rudder angle indicator. (10 Marks)
b. Draw and explain the working of oxygen analyzer. (10 Marks)
- 6 a. Write a short note on Megger with a simple circuit. (10 Marks)
b. Explain in detail the steps involved in an electrical fault finding and repair. (10 Marks)
- 7 a. Write a brief note on Tanker classification and its Dangerous spaces. (10 Marks)
b. With a neat diagram, explain basic turbo-electric propulsion system. (10 Marks)
- 8 a. Write a short note on main switchboard safeties. (10 Marks)
b. What are the precautions taken against electric shock and related hazards? Explain in detail. (10 Marks)

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1. On applying for the remaining blank page
2. Any revealing of identification, appeal to evaluator and/or equations written e.g. 4218-50, will be treated as malpractice.