(10 Marks)

(10 Marks)

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Sixth Semester B.E. Degree Examination, June/July 2016 Marine Electrical Technology

Time: 3 hrs.

Max. Marks: 100

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

PART - A

- 1 a. With the constructional and operational diagram explain brushless generator in detail.
 - b. List out the Merits and Demerits of AC and DC on board.
- 2 a. What are the different emergency batteries used in ship? Explain any one, in detail.
 - b. With block diagram explain in detail about shore supply. (10 Marks)
 (10 Marks)
- 3 a. Explain in detail on the need of main and Emergency switch board in ship for electrical power distribution. (10 Marks)
 - b. With the help of circuit diagram, explain Grounded and Insulated neutral system. (10 Marks)
- 4 a. What are the different protective devices used for marine electrical motor protection? Explain them briefly.
 - b. With the help of neat circuit diagram explain why the star-delta starter is preferred for electrical motor starting?

 (10 Marks)

PART - B

- 5 a. Explain in detail the Emergency Radio operation and hence brief, key radio call procedures.
 - b. With the circuit explain in detail about oxygen Analyzer used in ships on boards. (10 Marks)
- 6 a. Explain in detail the steps involved in an electrical fault finding and Repair. (10 Marks)
 - b. What are the commonly used testing equipment and meters for electrical maintenance in ship? Explain briefly.

 (10 Marks)
- 7 a. Explain in detail, different tanker classifications and their Dangerous spaces. (10 Marks)
 - b. With a neat block diagram explain basic turbo electric propulsion system. (10 Marks)
- 8 a. Explain the need for Firefighting equipment in ship's Engine room and discuss the different fire fighting system in ship.

 (10 Marks)
 - b. What are the different steps to minimize the risk of an electrical shock on board? (10 Marks)

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