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***B. Tech. Degree VIII Semester Examination in
Marine Engineering July 2016***

**MRE 801 SAFE WATCH KEEPING AND PREPARATION FOR
CLASS IV EXAMINATION**

Time: 3 Hours

Maximum Marks: 100

(5 × 20 = 100)

- I. Explain taking over watch at sea at poor visibility and congested waters, at port and at anchorage. (20)
- OR**
- II. Explain the basic principles to be observed in watch keeping of an engine room and why protection of marine environment is important. (20)
- III. What are the important checks to be carried out in the following equipments before taking over watch? (5)
- (a) Refrigeration system. (5)
- (b) Steering system. (5)
- (c) Main engine. (5)
- (d) Main switch board. (5)
- OR**
- IV. Explain the safety and precautions required for watch keeping engineers doing duty in chemical tankers and LPG carriers. (20)
- V. The statutory certificates and documents required for international voyage of a merchant ship and explain the significance of each certificate. (20)
- OR**
- VI. Elaborate what is meant by port state control inspections and the reasons for detention of ship in port. (20)
- VII. (a) Explain Marpol all annexes in detail. (12)
- (b) Explain the amendments of Marpol and Solas came into force on January 2015. (8)
- OR**
- VIII. Write short notes on: (5)
- (a) Loadline. (5)
- (b) Tonnage. (5)
- (c) DOC. (5)
- (d) SMC. (5)
- IX. Explain in detail the surveys carried out on ship with their periodicity and grace time provided. (20)
- OR**
- X. Explain the normal routine jobs of watch keeping engineer. What are the reasons a watch keeper can refuse to hand over watch to a reliever. (20)