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***B.Tech. Degree VIII Semester Examination in
Marine Engineering July 2017***

**MRE 1801 SAFE WATCH KEEPING AND ENGINE ROOM RESOURCE MANAGEMENT
(2013 Scheme)**

Time: 3 Hours

Maximum Marks: 100

(5 × 20 = 100)

- I. Explain in detail the criteria for composing the engine room watch of a merchant ship.
OR
- II. Enumerate the practical duties and responsibilities concerning safety and protection and environment requirements for watch keeping duties.
- III. Describe in detail the special requirements for engineer officers doing watch keeping on Chemical tankers and LPG ships.
OR
- IV. As an engineer officer on watch, what are the measures taken by you while the ship is navigated through congested water and during restricted visibility?
- V. Explain in detail what all items you will examine while taking over the watch in a product carrier and also describe how the watch is handed over to the next duty engineer.
OR
- VI. What all safety precautions would you take onboard chemical tankers and gas carriers during operation, repair and maintenance and emergency situations?
- VII. Describe in detail the importance of personal relationship, leadership skills and decision making skills especially when working in multi-cultural environment.
OR
- VIII. Write short notes on: (i) Engine room resource management (ii) Work load management (iii) Planning and coordination (iv) Allocation of resources.
- IX. Enumerate the requirements of managerial skills for an engineer officer and explain in detail four skills that are most important ones according to you.
OR
- X. Explain in detail the various resources available onboard the ship and what plans you will make for the effective allocation, assignment and prioritization of the said resources.