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***B.Tech. Degree VIII Semester Examination in  
Marine Engineering August 2015***

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

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. (20)
- OR**
- II. Enumerate the practical duties and responsibilities concerning safety and protection and environment requirements for watch keeping duties. (20)
- III. (a) Describe the special requirements for engineer officers watch keeping on gas tankers. (10)
- (b) Differentiate the terms “Handing over the watch” and Taking over the watch”. (10)
- OR**
- IV. (a) 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? (10)
- (b) What are the special fire precautions you would take as a watch keeper in oil tankers? (10)
- V. (a) Explain the special precautions you would take while carrying out engineering watch when the ship is in unsheltered-anchorage condition. (10)
- (b) Port watch keeping is different from sea watch keeping. Explain the differences. (10)
- OR**
- VI. (a) Describe the important regulations and codes of practice used for ship design and equipment of oil, chemical and gas tankers. (10)
- (b) Explain the principle characteristics of cargo, toxicity hazards, safety equipments and pollution prevention with respect to oil, chemical and gas tankers. (10)
- VII. Enumerate the statutory certificates and other documents to be carried onboard a merchant ship for safe trading and PSC inspection and explain the significance of each of them. (20)
- OR**
- VIII. (a) What are the objectives of ISM Code and explain the terms SMC and DOC with respect to the said Code? (10)
- (b) Differentiate the terms “Tacit Acceptance” and “Explicit Acceptance” of IMO. (10)
- IX. (a) Explain the difference between port state control and flag state control inspections and the implications of ship’s detention in ports. (12)
- (b) Explain briefly ISPS Code, including its objectives. (8)
- OR**
- X. (a) Describe the various class and statutory surveys that are carried out on ocean going ships stating clearly the periodicity of surveys and validity of certificates. (12)
- (b) Explain briefly STCW Code, 2010 and the importance of updating the proficiency and competency of watch keeping engineer officers. (8)