

***B. Tech Degree VIII Semester Examination in
Marine Engineering, January 2010***

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

Time: 3 Hours

Maximum Marks: 100

- I. (a) Explain in detail "Fitness for duty". (8)
(b) Describe the duties and responsibilities concerning safety and protection of environment requirements for watch keeping duties. (12)
- OR**
- II. (a) Why is protection of marine environment important? (8)
(b) Explain in detail the basic principles to be observed in keeping an engineering watch. (12)
- III. (a) What are the special requirements for engineer officers for watch keeping for chemical tankers and gas tankers? (12)
(b) What is meant by "Engine room log book"? Why is it necessary and what are the parameters recorded in that? (8)
- OR**
- IV. Write short notes on:
(a) Periodic checks of machinery (7)
(b) Preventive maintenance (6)
(c) Navigation in congested water and during restricted visibility (7)
- V. (a) Explain in detail the difference between "Watch keeping in Port" and "Watch keeping in Anchorage". (10)
(b) Discuss the various conditions of a ship which may lead to detention by Port State Control. (10)
- OR**
- VI. (a) Define "Flag State Control" and "Port State Control". (8)
(b) Describe the different regulations and codes of practices used for chemical tankers and gas tankers. (12)
- VII. (a) What are the objectives of IMO and how are they achieved? (12)
(b) Explain in detail the terms "Tacit Acceptance" and "Explicit Acceptance" used by IMO. (8)
- OR**
- VIII. What are the statutory certificates and documents to be carried on board a merchant ship for international voyage and explain the significance of each. (20)
- IX. (a) Explain the significance of ISM Code and what are the statutory certificates associated with the said code. (8)
(b) What is MARPOL – 73/78? Explain in detail the particulars of the relevant equipments provided on board for the prevention and control of oil pollution from merchant ships. (12)
- OR**
- X. Write short notes on:
(a) ISPS Code (7)
(b) Load Line Certificate (6)
(c) SOLAS – 74 (7)