

## ***B. Tech Degree VIII Semester Examination in Marine Engineering June 2011***

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

Time : 3 Hours

Maximum Marks : 100

- I. (a) Describe the significance of the International Convention STCW – 1995. (8)  
 (b) What are the basic principles to be observed in keeping an engineering watch as a junior engineer on board a general cargo ship? (12)
- OR**
- II. Elaborate the various criteria considered necessary for keeping an engine room watch as per STCW Code. (20)
- III. Describe in detail the special requirements for engineer officers keeping engine room watch on chemical tankers and gas carriers. (20)
- OR**
- IV. Write short notes on the following:  
 (i) Taking over watch (6)  
 (ii) Navigation in congested water and during restricted visibility (7)  
 (iii) Preventive repair and maintenance (7)
- V. (a) What are the special requirements for doing watch keeping in ports and at anchorages? (10)  
 (b) Explain the Regulation and Code of practice used for a chemical tanker and its equipments. (10)
- OR**
- VI. Write short notes on:  
 (i) Requirement of continued updating of proficiency. (6)  
 (ii) Emergency operations on an oil tanker and the training requirements for them. (7)  
 (iii) Port state control inspection and substandard ships. (7)
- VII. What are the statutory certificates and documents to be provided on board a passenger ship? Explain the purpose and the validity of each of the above. (20)
- OR**
- VIII. Why are Plimsol marks made on a ship? Sketch and explain the load line markings made on a bulk carrier used for international trade. (20)
- IX. (a) Explain the different procedures used by IMO for adopting its various conventions. (10)  
 (b) What are class certificates? Explain the various class surveys carried out by classification societies on board an ocean going ship. (10)
- OR**
- X. Write short notes on:  
 (i) ISPS Code and its importance (6)  
 (ii) Importance of ISM Code and mandatory certificates issued under that code. (7)  
 (iii) Prevention of air pollution from ships. (7)