

B.Tech Degree VIII Semester Examination in Marine Engineering June 2012

MRE 801 SAFE WATCH KEEPING AND PREPARATION FOR CLASS IV EXAMINATION

Time: 3 Hours

Maximum Marks: 100

- I. (a) Explain in brief STCW convention, 1995. (8)
 (b) What are the basic principles to be observed in keeping an engineering watch in the engine room? (12)
- OR**
- II. (a) Explain the safety and emergency procedures used in watch keeping of an engine room of a ship. (10)
 (b) Why is protection of marine environment necessary? Explain the importance of MARPOL 73/78. (10)
- III. (a) Explain in detail the special requirements for engineer officers for watch keeping on oil tankers. (12)
 (b) Does the above requirement vary from that required for a chemical tanker/gas tanker? (8)
- OR**
- IV. Write short notes on:
 (i) Periodic checks of machinery (6)
 (ii) Preventive maintenance of machinery (7)
 (iii) Navigation in restricted waters and during restricted visibility (7)
- V. (a) Explain in detail about the engineer officers' watch keeping duty in port. (10)
 (b) How do you take over the watch keeping duty from the relieving engineer? (10)
- OR**
- VI. Write short notes on:
 (i) Port State Control Inspection (6)
 (ii) Emergency operation on board ship (7)
 (iii) Different regulations and codes of practices used for chemical tankers and gas tankers. (7)
- VII. Explain in detail what are the statutory certificates and documents to be provided on board for safe trading of vessel and port state control inspection. (20)
- OR**
- VIII. Explain in detail the different surveys (special/intermediate/annual) to be carried out on board ocean going vessels. Also explain the periodicity of each survey and the grade time provided. (20)
- IX. Write short notes on:
 (i) SOLAS – 74 (7)
 (ii) MARPOL – 73/78 annexes (7)
 (iii) Load line certificate (6)
- OR**
- X. Write short notes on:
 (i) DOC and SMC (6)
 (ii) ISPS code (7)
 (iii) Explicit and Tacit procedures for IMO conventions (7)