

B.Tech Degree VIII Semester Examination in Marine Engineering, December 2007

MRE 801 SAFE WATCH KEEPING & PREPARATION FOR CLASS IV EXAMINATION

Time : 3 Hours

Maximum Marks : 100

- I. Explain in detail the important checks to be carried out in the following machineries before taking over a watch at sea
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| | (i) Auxiliary Boiler | (5) |
| | (ii) Generating Plants | (5) |
| | (iii) Pumping Systems | (5) |
| | (iv) Main Engine | (5) |
- OR**
- II. What are the differences in taking over a watch at Port, at Sea, at Anchorage, or during Navigation in congested waters and restricted visibility? (20)
- III. (a) Explain in detail the special requirements for engineer officers watch keeping in oil tankers. (15)
- (b) What are the special fire precautions taken in oil tankers? (5)
- OR**
- IV. (a) Explain in detail the special requirements for engineer officers watch keeping in chemical tanker and gas tanker. (15)
- (b) What are the special fire precautions taken in gas tankers? (5)
- V. 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**
- VI. Explain in detail the different surveys (special/intermediate/annual) to be carried out on sea going vessels. Also explain the periodicity of each survey and the grace time provided. (20)
- VII. (a) What is I.M.O and what are the main aims of I.M.O? (10)
- (b) Explain different ways of adopting a convention in I.M.O. (10)
- OR**
- VIII. What is MARPOL – 73/78 and how many Annexes are there in MARPOL – 73/78 and also explain all the Annexes in detail? (20)
- IX. Write short notes on :
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| | (i) Preventive maintenance of machinery | (5) |
| | (ii) Periodic checks of machinery | (5) |
| | (iii) Load Line Certificate | (5) |
| | (iv) "Fitness for duty" | (5) |
- OR**
- X. Write short notes on :
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|--|--------------------------|-----|
| | (i) STCW Convention 1995 | (5) |
| | (ii) SOLAS – 74 | (5) |
| | (iii) ISPS Code | (5) |
| | (iv) DOC and SMC | (5) |

