

B. Tech Degree VIII Semester Examination in Marine Engineering December 2010

MRE 801 SAFE WATCH KEEPING AND PREPARATION FOR CLASS IV EXAMINATION

Time : 3 Hours

Maximum Marks : 100

(5 x 20 = 100)

- I. What are the actions to be taken during the watch keeping at sea in case of the following emergencies ?
- | | | |
|-------|---|-----|
| (i) | A small oil fire in a corner of the engine room | (5) |
| (ii) | Engine room bilge level increasing suddenly | (5) |
| (iii) | Power failure or Black out | (5) |
| (iv) | Main engine lubricating oil pressure dropping | (5) |
- OR**
- II. Explain in detail the important checks to be carried out in the following machineries before taking over a watch at sea :
- | | | |
|-------|-------------------|-----|
| (i) | Auxiliary Boiler | (5) |
| (ii) | Generating Plants | (5) |
| (iii) | Pumping Systems | (5) |
| (iv) | Main Engine | (5) |
- 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. Explain in detail the special requirements for engineer officers watch keeping in chemical tankers and gas tankers. (20)
- V. What are the differences in taking over a watch at port, at sea, at anchorage, during navigation in congested waters or during restricted visibility? (20)
- OR**
- VI. Explain in detail the Port State Control Inspections and what are the usual reasons for the detention of a ship in port. (20)
- VII. What are the statutory certificates and documents to be carried onboard for safe trading of vessel and port state control inspections. (20)
- OR**
- VIII. Explain in detail the different surveys (special/intermediate/annual) to be carried out on sea going vessels. Also explain periodicity of each survey and the grace time provide. (20)
- IX. (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**
- X. Write short notes on :
- | | | |
|-------|--------------|-----|
| (i) | ISPS Code | (5) |
| (ii) | LOAD LINE | (5) |
| (iii) | MARPOL 73/78 | (5) |
| (iv) | ISM Code | (5) |