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B.Tech. Degree VIII Semester Examination in Marine Engineering
May 2019

**MRE 1801 SAFE WATCH KEEPING AND ENGINE ROOM RESOURCE
MANAGEMENT**
(2013 Scheme)

Time: 3 Hours

Maximum Marks: 100

(5 × 20 = 100)

- I. (a) What are the basic principles to be observed in keeping watch in the Engine Room of a large ocean going vessel? (10)
(b) Briefly describe STCW-1995 and explain the significance of the same. (10)
OR
- II. (a) What are the procedures to be followed by a watch keeper in the matter of Marine Environment Protection and what are the significances of the same? (10)
(b) Explain the details of checks to be carried out on: (10)
(i) Main Engine
(ii) Boiler
- III. (a) What are the special requirements of an engineer officer to work on board: (10)
(i) An oil tanker
(ii) A chemical carrier
(b) What are the differences between the procedures of "Handing Over" and "Taking Over" of watch? (10)
OR
- IV. List and explain the periodic checks to be carried out on various machinery items in the engine room. (20)
- V. (a) What are the differences in watch keeping procedure between a general cargo ship and ships carrying hazardous cargo like oil, chemical and gas? (12)
(b) What are the extra safety precautions that you need to take on board vessels carrying oil/chemical? (8)
OR
- VI. Write short notes on: (20)
(i) Port State Control
(ii) Regular updating of proficiency
(iii) Safety precautions on a tanker during repair and maintenance
- VII. What are the basic principles of management and how are they applied to the operation of ships? (20)
OR
- VIII. How important are personal relationship on board the ship to ensure smooth operation of the ship? How is it influenced by a multi-cultural environment? (20)
- IX. Describe "Leadership Skill" and explain how it can be put to use to successfully manage the personal working in the engine room and their work. (20)
OR
- X. What do you understand by "Resource Management"? How do you apply that effectively in the ship considering the limitations of resources on board? (20)