BT-MRE-VIII(R/S)-07.22-0064 Reg. No. | | | | | | | | |

B

B.Tech. Degree VIII Semester Regular/Supplementary Examination in Marine Engineering July 2022

MRE 1801 SAFE WATCH KEEPING AND ENGINE ROOM RESOURCE MANAGEMENT

(2013 Scheme)

Time: 3 Hours Maximum Marks: 100

(5 × 20 = 100)

I.	(a)	Explain the basic principles to observe while keeping an engineering watch.	(10)
	(b)	Briefly describe the measures for ensuring the "Fitness for duty" for keeping an engineering watch.	(10)
		OR	
II.	(a)	Explain how implementation of STCW 2010 can address the issues related to fraudulent certificates.	(10)
	(b)	Describe the duties and responsibilities of an Engine room watch keeper regarding Safety and Environment protection.	(10)
III.	(a)	What are the special requirements for watch keeping engineer officers in a Chemical tanker vessel?	(10)
	(b)	What are the additional safety measures taken during the engineering watch while navigating a vessel in restricted waters?	(10)
		OR	
IV.	(a)	Why a Log book is maintained in the Engine room? What are the entries made in it?	(10)
	(b)	Explain the role of a Chief engineer to ensure Safe and efficient watches are maintained in the machinery space of a Vessel.	(10)
V.	(a)	Enumerate the Safety precautions to be taken during repair and maintenance on a tanker vessel.	(10)
	(b)	What are the different ways to ensure continued updating of proficiency?	(10)
		OR	
VI.	(a)	Briefly explain about Engine room watch keeping in an Unsheltered anchorage.	(10)
	(b)	Explain why additional equipments and procedures are required onboard depending upon the characteristics of cargo.	(10)
VII.	(a)	Explain major functions of Engine room resource management.	(10)
	(b)	What are the problems associated with working in a multi cultural environment? How it affects personal relations onboard?	(10)
		OR	
VIII.	(a)	Why timely decision making is important in management process?	(10)
	(b)	Illustrate the importance of communication in an organization.	(10)
IX.	(a)	Discuss the role of "Onboard training" in developing the competencies of a marine engineer.	(10)
	(b)	Explain the term "Standard Operating Procedure". How the SOP are developed?	(10)
		OR	
X.	(a)	Explain the importance of situational awareness and risk assessment.	(10)
	(b)	Describe "Leadership Skill" and explain this may be used to manage personnel working in the engine room.	(10)

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