	Q. Code									e:36	:360386			
Reg. No.														

## **B.E. / B.TECH. DEGREE EXAMINATIONS, MAY 2024**

Eighth Semester

## MR18803 – SAFETY PRECAUTIONS AND WATCH KEEPING

(Marine Engineering)

(Regulation 2018)

		(Regulation 2016)		
TIME: 3 HOURS			X. MARKS:	
COUI		STATEMENT		RBT LEVEL
CO 1		Students will have knowledge about STCW standards of training, requofficers and ratings.	irements of	3
CO 2		Students will have knowledge about Watch-keeping in various ships.		3
CO 3		Students will have knowledge about Prevention, rectification and maint	enance with	3
		respect to trouble shooting of machineries in the Engine Room.		
CO 4		Students will have knowledge about Troubleshooting related to main engine		3
CO 5		Students will have knowledge about Troubleshooting related to Electrical co	omponents.	3
		PART- A $(10 \times 2 = 20 \text{ Marks})$		
		(Answer all Questions)	CO	DDT
			CO	RBT LEVEL
1.	What	is meant by safe working practice?	1	1
2	Nome	any form had weather measurians	1	1
2.	Name	e any four bad weather precautions.	1	1
3.	What	is short cycling in refrigerating compressor?	2	1
4	<b>11</b> 71	Ja 2 2 4 1 1 2 2 2 1 2 1 2 2 2	2	1
4.	wnyc	do we soot blow a boiler?	Z	1
<b>5.</b>	What	does white smoke from a boiler flue gas outlet indicate?	3	2
_	3371 4	4 6 1 11 19	2	2
6.	what	are the causes for diesel knock?	3	2
7.	What	is the purpose of over speed trip in an auxiliary engine?	4	2
0	<b>Q</b> to the		ā	_
8.	State a	a few reasons for excess pressure in a combustion chamber of an engine.	4	2
9.	What	do you check while connecting shore supply to a vessel?	5	1
	-	5 11 7	_	

5 2

DADT D (5 14 - 70 Maniles)								
		PART- B (5 x $14 = 70 \text{ Marks}$ )	Marks	co	RBT LEVEL			
11. (a)	Desc	cribe the procedure to take over watch while the vessel is underway.	(14)	1	3			
		(OR)						
<b>(b)</b>	(i)	Describe your action for: Rescue of an injured person.	<b>(7)</b>	1	3			
	(ii)	Flooding of engine room bilges.	(7)	1	3			
12. (a)	Desc	cribe the inspection carried out at dry-dock on Hull, Propeller and	(14)	2	3			
	Rud	der.						
(OR)								
<b>(b)</b>	(i)	Explain the causes and remedies for No discharge from Centrifugal pump.	(7)	2	3			
	(ii)	Excessive purifier vibration.	(7)	2	3			
13. (a)	Wha	at are the causes and prevention of starting airline explosion?	(14)	3	3			
		(OR)						
<b>(b)</b>	(i)	Troubleshoot the cause and state remedies for Reduction in power output of main engine.	(7)	3	3			
	(ii)	Main engine exhaust uptake fire.	(7)	3	3			
<b>14. (a)</b> Explain in detail with all precautions for the removal and inspection of 2 stroke engine liner.				4	3			
		(OR)						
<b>(b)</b>		will you open up a large 2 stroke engine bottom end bearing for ection? Indicate all safety precautions.	(14)	4	3			
15. (a)	(i)	What inspection and maintenance is carried out on an AC induction	(7)	5	3			
		motor?						
	(ii)	What precautions are taken while doing work on main switch board?	<b>(7)</b>	5	3			
		Justify with reasons.						
		(OR)						
<b>(b)</b>	(i)	With respect to batteries on board state the maintenance carried out	<b>(7)</b>	5	3			
		and the precautions.						

Q. Code:360386

(ii) What is a hazardous area and state the precautions and checks while (7) 5working in such area?

## **PART-** C (1 x 10 = 10 Marks)

(Q.No.16 is compulsory)

Marks CO RBT LEVEL

16. State the procedure with associated precautions for changing oil in an (10) 4 3 electro hydraulic governor. Indicate the suitable oil with reasons.

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