## CRES SEVIEME

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USN	1		15MR81
	L	Eighth Semester B.E. Degree Examination, Aug./Sept.2020	)
		Engine Room Management	
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Tir	ne: i	Max.	Marks: 80
No	-	For Regular Students: Answer any FIVE full questions irrespective of module For Arrear Students: Answer any FIVE full questions, choosing ONE full questions, choosing ONE full questions,	
		Module-1	
1	a.	Explain the main aspects of engine room watch keeping in relation to sea watch	
	b.	and unsheltered anchorage watch.  Two hours notice received for sailing out from port. Explain the procedure for r	(12 Marks)
	υ.	starting.	(04 Marks)
2		Draw the emergency hiles avetem of engine room of a large size eacen going y	aggal Wha
2	a.	Draw the emergency bilge system of engine room of a large size ocean going v problems faced after its operation?	(08 Marks)
	b.	Draw the CO <sub>2</sub> system for total flooding of engine room. Give procedure for CO <sub>2</sub>	
			(08 Marks)
		Module-2	
3		Explain with the aid of sketch the procedure for,	
	a.	Cleaning sea water side of shell and lube type L.O. cooler of a Diesel engine	(06 Marks)
	b. c.	Cleaning of plate type fresh water cooler of a diesel engine.  How Rudder painted internally in the Drydock.	(06 Marks) (04 Marks)
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			( martiness
4	a.	Company has informed of dry docking of a Tanker after discharge of Cargo. Expl Pre drydock operations.	ain (04 Marks)
	b.	Works planned in the Drydock.	(08 Marks)
	c.	Refloating of the tanker in the drydock.	(04 Marks)
		Module-3	
5	a.	Explain the oil mist detector of a main engine.	(08 Marks)
	b.	Explain reasons for crank cage explosion. What actions to be taken in case one m	-
		temperature is high.	(08 Marks)
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6	a. b.	Explain main engine air start lining explosion- Reasons, effect and prevention. Explain main engine scavenge space fix – Reasons, effect and prevention an taken.	(08 Marks) d action to (08 Marks)
7		Module-4 Give reasons for main engine	

Give reasons for main engine Turbocharger surging and immediate action to be taken. (08 Marks) Not starting on fuel – reasons and action to be taken. (04 Marks) Not starting on air – reasons and action to be taken. (04 Marks)

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8 With respect to main engine, describe (08 Marks) Crank shaft deflection a. (08 Marks) b. Resin checking and its advantages Module-5 Explain the arrangement for Shore power with the help of a circuit diagram. (08 Marks) Hydropose (Sea water pump) motor's insulation in zero due to sea water entry. What actions (08 Marks) to be taken? Draw and explain Navigational lights of a vessel. (08 Marks) 10 a. What is explosion proof motor on oil tanker? Explain briefly. (04 Marks) What is IP Rating of motors fitted on ship? Explain briefly. (04 Marks)

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