CBCS SCHEME

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Fifth Semester B.E. Degree Examination, Jan./Feb. 2023 Marine Auviliary Machines

		Marine Auxiliary Machines	
Tin	ne: 3	hrs. Max. M	arks: 100
	No	ote: Answer any FIVE full questions, choosing ONE full question from each mo	dule.
		Module-1	
1	a.	Explain the precautions and procedure of the fuel oil bunkering onboard a vessel.	(10 Marks
•	b.	Explain with a neat sketch fuel oil system on board vessel.	(10 Marks
		OR	
2	a.	With a neat sketch explain, steam condensate system.	(10 Marks)
	b.	Explain steam hammering and water hammering in pipelines.	(10 Marks)
-		Module-2	(10.15 1.)
3	a.	Draw a neat sketch of Gate valve and explain the maintenance of the same.	(12 Marks)
	b.	With a neat sketch, explain magnetic filter.	(08 Marks)
		OR	
4	0	With a neat sketch, explain Swing Check Valve.	(10 Marks
4	a. b.	With a neat sketch, explain Globe Valve.	(10 Marks
	υ.	With a near sketch, explain Grego Varve.	
		Module-3	
5	a.	Explain the steps following during the overhaul of centrifugal pump.	(10 Marks
	b.	What is cavitation? List the methods to prevent cavitation.	(06 Marks
	c.	Why priming is needed for centrifugal pump?	(04 Marks
		OR	(40.35.1.)
6	a.	Explain series and parallel operation of a centrifugal pump graphically.	(10 Marks
	b.	Differentiate between centrifugal pump and positive displacement pump.	(06 Marks
	c.	Write a short note on gear pump.	(04 Marks
		Module-4	
7	a A	With a neat sketch, explain Shell and Tube Heat Exchanger.	(10 Marks
1	а. Б	Explain reverse osmosis desalination plant.	(10 Marks
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		OR	
8	a.	Explain the working of flash evaporators.	(10 Marks
	b.	Write a note on different types of fouling	(10 Marks
		Module-5	
9	a.	Sketch and explain four ram type steering gear system.	(14 Marks
	b.	Write the SOLAS regulations for steering gear system.	(06 Marks
		OR	
10	c	Explain the principle, construction and operation of rotary vane steering gear sy	stem with
10	a.	Explain the principle, constitution and operation of four y value seeming goal by	(14 Marks

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

neat sketch.

b. List the safeties provided in steering gear system.

(14 Marks)

(06 Marks)