CBCS SCHEME

USN 17MR744

Seventh Semester B.E. Degree Examination, Jan./Feb. 2021 Advanced Marine Technology

Time: 3 hrs.

Max. Marks: 100

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Note: Answer any FIVE full questions, choosing ONE full question from each module.			
Module-1			
1	•	Explain briefly the origin of double hull ships.	(05 Marks)
1	a. b.	Explain IG system, with a neat sketch.	(15 Marks)
	υ.	Explain 10 system, with a heat sketch.	
		OR	
2	a.	Briefly explain the phasing out of single hull tankers.	(07 Marks)
	b.	With a neat sketch, explain deep well cargo pump.	(13 Marks)
		Module-2	
2	_	Briefly explain about basic cargo tank types used on board gas carriers.	(15 Marks)
3	a. h	Write a note on Fully Pressurised Ships.	(05 Marks)
	b.	Control of the contro	
		OR	
4	a.	What are the functions of Reliquification plant? Explain the two types of Rel	iquification
		plants:	(15 Marks)
	b.	Explain how nitrogen can be generated.	(05 Marks)
		Module-3	
5	a.	Explain "Load on Top" (LOT).	(07 Marks)
3	b.	Explain the types of ballast tanks as per usage on oil tankers.	(05 Marks)
	c.	Explain about ballast tank protection.	(08 Marks)
	О.		
		OR	ooints
6	a.	What are the ways to make cargo operation on oil tankers safer? Explain any 10 p	(10 Marks)
	b.	Briefly explain about Emergency shutdown system in Gas Carriers.	(10 Marks)
	υ.	Briefly explain about Emergency shates wit system in the	
		Module-4	n maa 1
7	a.	What is IMDG code? What are the key objectives of the code? When and why	IMDG code
		was adopted?	(08 Marks)
	b.	Explain in detail about nine classification of dangerous goods.	(12 Marks)
		OR	
8	a.	Write about various Precaution Procedures to be done before the cargo operation	s in port.
U			(15 Marks)
	b.	Explain about tank cleaning method on board modern chemical tankers.	(05 Marks)
		Module-5	
0	0	Explain the following types of bulk carriers:	
9	a.	i) Basic or Conventional ii) Combined iii) Gearless.	(15 Marks)
	b.	Write a note on "Bulk – In, Bags Out".	(05 Marks)
	U.		
		OR	4535 1

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

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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(15 Marks)

(05 Marks)

Explain about the types of container ships.

What are the advantages of Ro – Ro ships?