## GBCS SCHEME

TICNI						18MR44
USN						101.111.

## Fourth Semester B.E. Degree Examination, July/August 2022 Ship Structure and Construction

Tir	ne: í	3 hrs.		Max. Marks: 100
	N	ote: Answer any FIVE full questions, choos	ing ONE full question fr	om each module.
		Modul		
1	a.	Define the following terms with the help of		
		(i) Length Between Perpendicular (LBP)	(ii) Length Over All	(LOA)
		(iii) Camber	(iv) Rise of floor	
		(v) Tumble Home		(10 Marks)
	b.	Draw the neat sketch for the following:		
		(i) Hogging (ii) Sagging (iii	) Racking	(10 Marks)
		OR		
2	a.	Sketch a neat sketch explain the process of r	netal arc welding.	(10 Marks)
	b.	With sketches explain the different welding		(10 Marks)
_		Modul		(10 Marks)
3	a.	Sketch and label Longitudinally framed soli		(10 Marks)
	b.	Sketch and label Transversely framed brack	et noor.	(IU Marks)
		OR		
4	a.	What is meant by collision bulk head?	Where it is located on	a ship? Under which
		convention it comes and explain the re	quirement for collision	bulk head under that
		convention.		(10 Marks)
	b.	Sketch and label		
		(i) Hawse pipe (ii) Bitter end	(iii) Panting stringer	(10 Marks)
		<u>Modul</u>		
5	a.	What are the different types of shell and dec	ck plating? Explain.	(10 Marks)
	b.	What are the regulations in SOLAS for water		(10 Marks)
		OR		
_		OR		(10 Marks)
6	2 300	Draw midship section of welded ship.  Sketch and explain horizontal type sliding v	vater tight door	(10 Marks)
	Ь.	Sketch and explain horizontal type sliding v	vater tight door.	(10 Marks)
		<u>Modul</u>		
7	a.	Sketch a load line marking carved on ship s	sides with dimensions and	d explain significance of
		each letters.		(10 Marks)
	b.	Sketch a ship yard layout.		(10 Marks)
		OR		4
8	a.	Name four types of ship launching methods		(10 Marks)
Ü	b.	What is free board? Why is it important?		(10 Marks)
			lo <b>5</b>	, K
•		Modu		(20 Marks)
9		Sketch and explain the constructional detail	S Of a bulk callier.	(20 marks)
		OR	<u> </u>	

What is corrosion? Explain the three corrosion prevention method used on ships. (20 Marks)

## 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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