

Ship Structure and Construction VTU CBCS Question Paper Set 2018



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	15MR44
USN	
	Dec 2017/Ian 2018

Fourth Semester B.E. Degree Examination, Dec.2017/Jan.2018 **Ship Structure & Construction**

Max. Marks: 80

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Time: 3 hrs. Note: Answer FIVE full questions, choosing one full ques	tion from each module.
Module-1	
	ead weight (08 Marks) (08 Marks)
OR State of section representation of section representations of section representation repr	naterial used in ship construction. (08 Marks)
b. What are the types of joints in welding? Explain the necessary carrying out welding.	(08 Marks)
3 a. Explain the purpose of shaft tunnel. Draw a cross section b. Explain the two different types of sterns.	view of a shaft tunnel. (08 Marks) (08 Marks)
b. Explain the two different syperior	
4 a. Write short note on: (i) Bulbous bow (ii) Tunnel bearing. b. Sketch and label: (i) Bitter end and chain locker. (ii) He Module-3	(08 Marks) awse pipe section. (08 Marks)
5 a. Explain with a neat sketch the construction of a bulkhead b. Sketch a hatch securing cleat. Where is hatch securing us	(08 Marks) ed? What is its purpose? (08 Marks)
6 a. Sketch and explain the horizontal type sliding water tight b. Sketch and label oil tight hatchway. Where such type of	t door. (08 Marks)
7 a. What are the various conditions for assigning a freeboar b. What are different types of launching? Explain side – la OR 8 a. What is a sea trail? How is it carried out? b. What are the types of ship according to freeboard co	d to a ship? (06 Marks)
OR	(06 Marks)
8 a. What is a sea trail? How is it carried out. What are the types of ship according to freeboard co	mputation? Explain the sub-division (10 Marks)
requirement according to types. Module-5 Lingth different motions of a sh	- 19 19 19 19 19 19 19 19 19 19 19 19 19
module-5 9 a. With a neat sketch explain the different motions of a sh b. Sketch and describe midship section of a bulk carrier. OR	
10 a. Explain the testing of cargo tank and cofferdam. b. Write short note on: (i) Integral tank. (ii) Membrane tank.	(08 Marks (08 Mark

- Membrane tank. (ii)
- Independent tank with respect to gas carrier. (iii)

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		CECS Scheme	
USN			15MR44
		Fourth Semester B.E. Degree Examination, June/July 2017 Ship Structure and Construction	,
Tim	ne: 3		arks: 80
		Note: Answer FIVE full questions, choosing one full question from each modu	le.
		Module-1	
1	a.	Define the following terms with help of neat sketch: i) Free board ii) Rise of floor iii) Tumble home iv) LOA	(08 Marks)
	b.	Explain the following stresses acting on a ship: i) Hogging ii) Sagging iii) Pounding iv) Racking	(08 Marks)
		OR	(08 Marks)
2	a. b.	Explain the process of metallic arc welding with a neat sketch. With a neat sketch, explain the different types of welding faults.	(08 Marks)
3	a.	Module-2 With a neat sketch, explain the stem construction of a ship.	(08 Marks)
	b.	Sketch and label: i) Longitudinally framed solid floor ii) Transversely framed bracket floor.	(08 Marks)
		OR	c evalained
4	a.	What is a collision bulkhead? Under what convention the construction of it is Give the regulation for construction of collision bulkhead.	(08 Marks)
	b.	With the neat sketch, explain the types of Rudder.	(08 Marks)
		Module-3	(08 Marks)
5	a. b.	Write short notes on: i) Shell plating, ii) Deck plating. Sketch and explain the mid-ship section of a welded ship.	(08 Marks)
		OR	(08 Marks)
6	a. b.	c ashles and nines through a Water Hant Dulk II	
		Module-4	(08 Marks)
7	a. b.	the second secon	(08 Marks)
j :		OR	(00 Manks)
8	a. b	and the state of the second of a ship	(08 Marks) (08 Marks)
i		Module-5	(08 Marks)
9	a b	- 1 - 1	(08 Marks)

OR

Explain the essential constructional differences between the following type of vessels: 10 a. (08 Marks) ii) Dry bulk carrier i) Container ship b. Briefly explain different type of tank system on a liquefied gas carrier. (08 Marks)

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