ADAR Rolling

		GBCS Scheme	
USN			15MR44
	L	Fourth Semester B.E. Degree Examination, June/July 2017 Ship Structure and Construction	
Tin	ne: 3	hrs. Max. Ma	arks: 80
		Note: Answer FIVE full questions, choosing one full question from each module	₽.
		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)
_		Module-2 Will and elected available stem construction of a ship.	(08 Marks)
3	a. b.	With a neat sketch, explain the stem construction of a ship. Sketch and label: i) Longitudinally framed solid floor	(00 hf - 1)
		ii) Transversely framed bracket floor.	(08 Marks)
		OR What is a collision bulkhead? Under what convention the construction of it is	explained.
4	a.	Give the regulation for construction of collision bulkhead.	(US MIAIKS)
	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)
	0.	OR	
6	a.	Skotch and explain the vertical type sliding water tight door.	(08 Marks)
	b.	Sketch the arrangement for passing cables and pipes through a water tight bulkhe	(08 Marks)
		Module-4	(08 Marks)
7	a. b.	and the state of the security	(08 Marks)
+		OR	
8	a.	Sketch a layout of shipyard.	(08 Marks) (08 Marks)
`	b.	·	,
		Module-5 Write short notes on: i) Corrosion control, ii) Antifouling system.	(08 Marks)
9	a b		(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)