JSN				18MR56
		Fifth Semester B.E. Degree F	Examination, June/July	2024
		Marine	Boilers	
				Max. Marks: 100
Time	e: 3 ł	nrs. e: Answer any FIVE full questions, cho	osing ONE full question from	each module.
	Not	e: Answer any FIVE full questions, cho	osing OTTE juic queens	
_	а. I b. I	Mod  Draw and explain a fire tube boiler with a  Explain the reliance of steam in merchant	neat sketch. Also list its moun	tings. (15 Marks) steam is used. (05 Marks)
,	0. 1	Skpiani wie i i		(03 1141113)
100	a. l b. l	Oraw and explain with the help of a simp List the advantages of a water tube boiler	OR le diagram a dual pressure boil over a fire tube boiler.	er. (14 Marks) (06 Marks)
		Mod	lule-2	(16 Marks)
3 4 5 6 7 8	a. b.	List and explain the boiler mountings on What is soot blowing and why do we nee	a water tube boiler. d to do it?	(04 Marks)
		Armanda,	ND.	
4		Draw and explain the working of a fusectional diagram.  Write a short note on safety valve materi	Il left safety valve with the	help of a neat cross (16 Marks) (04 Marks)
	b.			
5	a. b.	List and explain the common impurities Explain the parameter generally tested in	dule-3 in raw water. 1 boiler water testing.	(10 Marks) (10 Marks)
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-	0	Explain the boiler water tests conducted	I with the help of a UNITOR s	spectrapak 310 test Kil
6	a. b.	(or any other). Explain the procedure for List the common boiler water treatment	ally J.	(04 Marks)
		Mo	dule-4	(10 Marks)
7	a. b.	Explain the various factors affecting the Draw and explain the working of a air re	combustion of the boiler. egister in a boiler.	(10 Marks)
			OR	(4.4.8#==leo)
8	a. b.	Draw and explain the working of a jet t Explain the maintenance routines on the	ype boiler burner. e main and pilot burner of a bo	iler. (14 Marks) (06 Marks)
		7	1 1- 5	
9	a.	Explain the heed and procedure for blo	w down of the boiler with the	help of a neat diagram. (10 Marks) (10 Marks)
	b.	Explain the daily and weekly checks to	be done on the boller.	(10 1.241.113)
			OR	2.00 mm - 11 N
10	) a.	Explain the wet and dry layup of boiler	rs. al	(10 Marks) (10 Marks)

Explain the wet and dry layup of boilers.
Write short notes on boiler tube renewal.