	Q. Code: 882/0											/04	
Reg. No.													

B.E. / B.TECH. DEGREE EXAMINATIONS, MAY 2023

Third Semester

MR18302 - MARINE MANFACTURING TECHNOLOGY

(Marine Engineering)

(Regulation 2018/2018A)

TIME: 3 HOURS MAX. MARKS								
COURSE STATEMENT				RBT LEVEL				
	OUTCOMES CO 1 The students will be able to know the different welding process and select the approximation of the students will be able to know the different welding process and select the approximation of the students will be able to know the different welding process and select the approximation of the students will be able to know the different welding process and select the approximation of the students will be able to know the different welding process and select the approximation of the students will be able to know the different welding process and select the approximation of the students will be able to know the different welding process and select the approximation of the students will be able to know the different welding process and select the approximation of the students will be able to know the different welding process.							
process for different applications				2				
The students will be able to have the knowledge of different casting process the appropriate process for different applications.				3				
CO 3 To select the Grinding Wheel and process based on the surface finish requ				3				
CO 4 The students will be able to have the depth understanding of various hot work				3				
CO 5	working process. CO 5 The students will be able to select the appropriate machines or machines tools for different requirements.							
	PART- A $(10 \times 2 = 20 \text{ Marks})$							
	(Answer all Questions)							
			CO	RBT LEVEL				
1. List out the four important arc welding equipment.			1	2				
2. Name any two modern welding processes and explain shortly.				2				
3. What is shrinkage allowance with respect to mould making?				2				
4.	4. Define blow moulding employed in plastic industries.							
5.	5. List out some of the abrasive materials used in lapping and honing processes.							
6.	6. What is lapping?							
7.	7. What are all the effects of cold working?							
8.	8. Define short-peening with simple example.							
9.	9. How lathes are specified and classified?							
10.	What is the difference between drilling and boring?		5	2				
PART- B (5 x $14 = 70 \text{ Marks}$)								
		Marks	CO	RBT LEVEL				
11. (a) (i) Explain the principle of Plasma Arc Welding.	(7)	1	3				

			Q. Cod	32704	
	(ii)	Explain oxy-acetylene cutting with neat sketch.	(7)	1	3
		(OR)			
(b)	Exp	lain the MIG and TIG processes with near sketch.	(14)	1	3
12. (a)	(i)	Explain shell moulding with neat sketch.	(7)	2	3
	(ii)	Explain various defects in casting process with some sketches.	(7)	2	3
		(OR)			
(b)	Exp	lain the lost foam and lost wax process with neat sketch.	(14)	2	3
13. (a)	Nari sket	rate the internal and external centre less grinding principle with a suitable	(14)	3	3
		(OR)			
(b)	Wri	te shorts notes on (a) Grid (b) Grade (c) Structure (d) Honing process	(14)	3	3
14. (a)	(i)	Explain the principle of working of progressive die with a simple sketch.	(7)	4	3
	(ii)	Explain the confined system of explosive forming process by a neat sketch.	(7)	4	3
		(OR)			
(b)	(i)	With neat sketch explain the WIRE drawing process.	(7)	4	3
	(ii)	Explain Hot working process.	(7)	4	3
15. (a)	(i)	With suitable sketch, explain the thread cutting on a lathe.	(7)	5	3
	(ii)	Explain the parts of a boring machine with a neat sketch.	(7)	5	3
		(OR)			
(b)	Exp	lain radial and upright drilling machine with neat sketch.	(14)	5	3
		$\frac{\text{PART-C (1 x 10 = 10 Marks)}}{\text{(Q.No.16 is compulsory)}}$	Maules	CO	DDT
			Marks	CO	RBT LEVEL
16.		we the welding or any repair work is carried out in deep sea? Explain the sesses with neat sketch.	(10)	1	4