Reg. No.:

Name



Continuous Assessment Test I - January 2023

Programme		D.Task M. L. L. I.		_	
rogramme	ŀ	B.Tech. Mechanical Engineering	Semester	:	Winter 2022-23
Course Title		Metal Casting and Welding	Code	:	BMEE302L
	:		Slot	:	F1 + TF1
Faculty		Dr. Manojkumar	Class Nbr	1:	CH2022235001649
T:	-,	Dr. R. Narayanan	Class Nbr	:	CH2022235001648
Time	:	1 ½ hours	Max. Marks	:	50

Answer any $\underline{\text{FIVE}}$ questions (5 x 10 = 50 Marks)

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Q.No.	Sec.				
1.	With the neat sketch explain the sand-casting terminologies and sand properties for improving the surface finish of the casted product.		10		
2.		Elucidate the types of pattern and cores used in casting technique with the sketch. Discuss the importance of the chaplet.	10		
-3.		What are the major types of sand molds? What are their characteristics?	10		
4.		Describe a method of producing bronze idol with the suitable sketch. You are permitted to use ceramic slurry.	10		
5.		Describe a suitable casting method for producing aluminium Metal Matrix Composite (MMC). Mention the advantages and disadvantages.	10		
6.		Clarify why squeeze casting products have better mechanical properties, dimensional accuracy, and surface finish than do expendable-mold processes.	10		