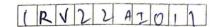


Institution Affiliated to Visvesvaraya Technological University, Belagavi



Academic year 2023-2024 (Odd Sem)

DEPARTMENT OF MECHANICAL ENGINEERING CIE II

Date	20th February 2024	Maximum Marks	50		
Course Code	ME232AT	90 Minutes			
Course Name	Course Name MATERIALS SCIENCE FOR ENGINEERS				

Q.	Questions	M	BT	CO
No.				
1a.	With the help of a stress-strain diagram explain toughness and ductility of a material	04	3	2
1b.	Using stress-strain diagram distinguish ductile and brittle fracture	06	2	2
	Explain the following properties: thermal expansion coefficient, thermocouple. luminescence, optical fibres	10	3	2
3.	Describe the following: ferroelectricity, piezoelectricity, superconductor,	10	4	2
	Explain the properties and applications of following materials with examples. Ceramics and Fiber reinforced composites		3	2
	Explain the properties and applications of following materials. stainless steel, cast iron and titanium alloys.	10	3	2

$BT\text{-}Blooms\ Taxonomy,\ CO\text{-}Course\ Outcomes,\ M\text{-}Marks$

	Particulars	CO1	CO2	CO3	CO4	L1	L2	L3	L4	L5	L6
Marks			,								
Distribution	TEST Marks	-	50	-	-	06	30	10	4		
