



RV Educational Institutions
RV College of Engineering

Autonomous
Institution Affiliated
to Visvesvaraya
Technological
University, Belagavi

Approved by AICTE,
New Delhi

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1RV22A1011

Academic year 2023-2024 (Odd Sem)

DEPARTMENT OF
MECHANICAL ENGINEERING
CIE II

Date	20 th February 2024	Maximum Marks	50
Course Code	ME232AT	Duration	90 Minutes
Course Name	MATERIALS SCIENCE FOR ENGINEERS	Sem: 3	

Q. No.	Questions	M	BT	CO
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
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
4.	Explain the properties and applications of following materials with examples. Ceramics and Fiber reinforced composites	10	3	2
5.	Explain the properties and applications of following materials. stainless steel, cast iron and titanium alloys.	10	3	2

BT-Blooms Taxonomy, CO-Course Outcomes, M-Marks

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