



RV Educational Institutions
RV College of Engineering

Autonomous
Institution Affiliated
to Visvesvaraya
Technological
University, Belagavi

Approved by AICTE,
New Delhi, Accredited
By NAAC, Bengaluru
And NBA, New Delhi

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DEPARTMENT OF MECHANICAL ENGINEERING

Date	7 th september 2023	Maximum Marks	50
Course Code	22ES24E	Duration	90 Min
Semester	II	CIE-Improvement test	
FUNDAMENTALS OF MECHANICAL ENGINEERING			

Answer all the Questions.

Sl. No.	Questions	M	BT	CO
1.	Explain with schematic diagram working principle of IC engine in which burning of fuel takes place at constant volume.	10	L2	3
2.	With a neat sketch explain Parallel Hybrid electric vehicle.	10	L2	3
3	What are composite materials? Classify it and explain the applications of different types of composite materials.	10	L2	1
4a	Differentiate between Thermoplastics and thermosets	5	L2	1
4b	Bring out the classification of Engineering materials with one example in each category.	5	L2	1
5	Explain the general properties and characteristics of polymers	10	L2	1

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

Marks	Particulars	CO1	CO2	CO3	CO4	L1	L2	L3	L4	L5	L6
Distribution	Max Marks	30	00	20	00	00	50	00	00	00	00