MANJARA CHARITABLE TRUST
RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI
Department of Applied Sciences & Humanities

Date: - 17/02/2025

Max. Marks: 15 **Duration:** 45 minutes
Class: FE
Name of the Course: Engineering Materials
Branch: All

Instructions:

1. Question 1 **(i&ii)** is **compulsory for 6 Marks**
2. From Question 2 (**Solve any one**)
3. From Question 3 (**Solve any one**)
4. Figures to the right of the question indicate full marks.
5. Assume the suitable data wherever necessary.
6. Illustrate your answers using neat diagrams wherever necessary.

Questions	Maximum Marks	Bloom's Taxonomy Level	Course Outcomes
Q1. i Write the composition, properties and uses of Magnalium.	3	2	CO1
Q1. ii Differentiate between SWCNTs and MWCNTs. (6 Points)	3	2	CO6
Q2. a What are composites? Explain carbon fiber reinforced composites.	5	3	CO3
OR			
Q2. b Define Alloy. State the effects of adding following elements on special steels: i) Cr, ii) Ni	5	3	CO1
Q3. a Define Nanomaterials. State applications of nanomaterials.	4	2	CO6
OR			
Q3. b Explain laminar composites with diagram.	4	2	CO3

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