Code No: R194103N

IV B.Tech I Semester Advance Supplementary Examinations, March - 2023 NANO TECHNOLOGY

(**Open Elective**)

Time: 3 hours

Answer any FIVE Questions **ONE** Question from Each unit All Questions Carry Equal Marks ****

UNIT I

1	Explain basics of quantum mechanics in detail.	[15]
	(OR)	
2	Analyze optical phenomena bonding in solids?	[15]

UNIT II

3	Illustrate	the	sintering	of	Silicon	Carbide(SiC)	and	applications	of	Silicon	
	carbide?										[15]
						(OR)					

4 Explain the nano particles preparation of alumina in detail. [15]

UNIT III

5	Analyze preparation for strength measurements of Silicon Carbide (SiC)?	[15]
	(OR)	
6	List out the advantages and applications of mechanical properties for Silicon	
	Carbide (SiC) in detail?	[15]

UNIT IV

	UNIT V	
8	Distinguish between optical properties and special properties of nano materials?	[15]
	(OR)	
7	Compare electrical and electronic properties of nano materials?	[15]

9	Justify important nanomaterials for investigating and manipulating materials in	
	the nanoscale with examples?	[15]
	(OR)	
10		

10 Explain the working of electron microscopy for nanoscience and technology. [15]

1 of 1



Max. Marks: 75

[15]