Total	l No	o. of Questions : 8]	SEAT No. :
P-6	62'	7 [6181]-190	[Total No. of Pages : 2
		B.E. (Electronics & Telecom	nunication)
		NANO ELECTRONI	
(2	019	9 Pattern) (Semester - VIII) (404)	192B) (Elective - VI)
		2½ Hours]	[Max. Marks : 70
Instr	uct	tions to the candidates:	
	1)	Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or	
	2)	Neat diagrams must be drawn wherever nec	essary.
	<i>3)</i>	Figures to the right side indicate full marks.	
	4)	Assume suitable data if necessary.	1.76°3
<b>Q1</b> )	a)	Explain Metal nano particles? Classified 1	Vano particles Properties.[8]
	b)	Explain Properties of CNT & give its Ap	plications. [8]
		OR O	
<i>Q</i> 2)	a)	What is Cluster? Explain Carbon nano tu	bes. [8]
	b)	Explain Nano material & Its Types.	[8]
<i>Q3</i> )	a)	Explain Photolithography process in deta	iil. [9]
	b)	Explain Electron Beam Lithography with	il. [9] neat Diagram. [9]
		OR	
<b>Q4</b> )	a)	Explain Nano electronics for communica	tion. [9]
	b)	Explain Atomic Lithography with neat I	riagram. [9]

What are molecular switch? Explain Ph switch.

Explain MEMS.

OR **Q5**) a)

[9]

b)

[9]

<b>Q6</b> )	a)	Explain NEMS.	[9]
	b)	Explain types of Super molecular Switches.	[9]
<b>Q</b> 7)	a)	What are Nano sensor? Explain Optical Sensor.	[9]
	b)	Which are types of Nano Sensor? Explain Nano biosensor.	[9]
		OR	507
<i>Q8</i> )	a)	What is Energy Capture? Explain Solar Cell.	[9]
	b)	Explain Transformation.	[9]
		What is Energy Capture? Explain Solar Cell.  Explain Transformation.	
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