TELANGANA UNIVERSITY S.S.R. DEGREE COLLEGE, NIZAMABAD (C.C:5029) VI SEMESTER INTERNAL ASSESSMENT I EXAMINATIONS PHYSICS (NANO SCIENCE) QUESTION BANK

				[d]
a. One b. Tv	VO	c. Three	d. Four	
2. Example of zero dimensional nano material [d]				
-	ano dots	c. Fullerenes	d. All	լսյ
3. Example for two dimensiona	al nano material			[c]
a. Quantum dots b. Na	ano dots	c. Grapheme	d. None	
4. The materials that are not co		•	d	[c]
a. zero b. tw	0	c. three	d. one	
5. The diameter of quantum dots				[c]
-)-100 nm	c. 2-10 nm	d. None	[•]
6. The diameter of nano wire				[a]
a. 1-100 nm b. 10)-100 nm	c. 2-10 nm	d. None	
7 No				r. 1
7. Nano wires are optioned fro	im a quantum well by the lotorithography	e process of c. Ballmilling	d. None	[a]
a. Lithography b. Ph	otonthography	C. Daliitiiliilig	u. None	
8. Ballmilling method used to grainding materials like				[d]
	emicals	c. seramic	d. all	[.]
9. In photolithography positive				[a]
a. soluble b. ins	soluble	c. both	d. None	
10. Density of states of nano material g(E) = [b]				
a. g(E) X N(E) b. g(c. g(E) = dN(E)	d. None	[n]
		0.8(2) 0.0(2)		
II. Fill in the blanks				
1. Colloidal method is used to prepare <u>gold</u>				
2. Vaccum diposition is a <u>PVD</u> process.				
3. CVD is used to produce <u>high purity</u> and <u>high performance</u> solid materials.				
 In condensation M-OR + HO = M → M-O-M + R-OH (M = SI, Ti) STM <u>Scanning tunneling Microscope</u> 				
6. TEM Transmission Electron Microscopy				
7. Atomic force microscope uses laser source.				
8. The quantum dots can be used in source <u>TV's</u>				
9. The effect achieved by reducing the volume of a solid so that the energy levels within it becomes				
diserete is called <u>electron confinement</u>				
10. Example of two dimensional nano material is <u>nano rods, nano wires</u>				
III. Short Answers.	nano matoriala			
1. What is three dimensional nano material?				

2. What are the uses of nanowire?

- 3. What is topdown process?
- 4. What are the steps in sotbel method?
- 5. Write disadvantages of Sem?