Exercise on

0-dimentional nanostructured materials

1. Define the following: Nanoscience and Nanomaterials

2. What is Nanoparticles?

3. What are the mean characteristics of metal nanoparticles?

4. List the methods that are being used to synthesize nanoparticles.

5. Explain the ball milling process; mention the advantages and disadvantages of this process.

6. What is the attrition?

7. Draw a chart to explain how could we synthesize TiO_2 nanoparticle-mediated mesoporous film by sol-gel processing?