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PG CBCS
M.SC. Semester-II Examination, 2021
CHEMISTRY
PAPER: C-CEM 204
(NANOTECHNOLOGY- II)

Full Marks: 40

Time: 2 Hours

Answer any FOUR questions:

10X4=40

1. How do you synthesis gold nanoparticles? Describe the application of nanotechnology in electronics. 5+5
2. How do you synthesis silver nanoparticles? Describe the application of nanotechnology in health and medicine. 5+5
3. How do you synthesize TiO₂ nanoparticles? What are titanium dioxide nanoparticles used for? 5+5
4. Describe the optical properties and mechanical properties of nanomaterials with suitable examples. 5+5
5. Describe the electrical properties and magnetic properties of nanomaterials with suitable examples. 5+5
6. Describe the potential applications of nanotechnology along the value-added chain in the energy sector. 10
7. How does Transmission electron microscope and Scanning electron microscope work? 5+5
8. Describe the positive effects and negative effects of nanotechnology on the environment. 5+5
