

**M.Sc. DEGREE EXAMINATION, EVEN SEMESTER 2021**  
**I Year II Semester**  
**Nano Chemistry**

**Max.marks :25**

Answer any **FIVE** questions ( $5 \times 5 = 25$ ) Marks

1. Discuss the optical and electrical properties of nanomaterials.
2. Explain the synthesis of nanomaterials by chemical vapor deposition.
3. Discuss any one method of synthesis and purification of carbon nanotubes.
4. Describe the theory involved in SEM and TEM.
5. Illustrate the theory involved in SPM and STM in brief.
6. Discuss the significance of nanotechnology in agriculture in detail.
7. Explain the applications of nanotechnology in medicine and sensors in brief.