Nanotechnology BE Chemical- (VIII Semester)

Time Allowed: 1 hr Max Marks: 20 All notations have their usual meanings, assume missing data if any. Each part 5 marks.

- 1.a How does mechanical properties change for a Nanomaterial when its size changes from nanoscale to micro scale. Cite atleast 03 examples of such specific property changes to substantiate your answer.
- 1.b Differentiate between 0D, 1D, 2D and 3D nanostructures of Carbon and show how their properties differ.
- 2.a Explain the working of AFM for characterizing nanoparticles/nanomaterials.
- b. What is the role of force-elasticity?