

## **Particle Characterization: Module 4, Lecture 13**

1. Identify three regions in the structure of a particle.
2. What imparts 3D character to a particle/ fluid interface?
3. Define fluid volume %. How is it relevant in the particulate context?
4. Sketch a typical sub-surface region of a particle.
5. Name some typical gradients from surface to sub-surface.
6. How can depth of carburization/ nitridation be controlled?
7. List some types of imperfections found in particle core. How can they be observed?
8. In catalysis, which regions are critical & why?
9. In pharma, which regions are critical & why?
10. In detergent powders, which regions are critical & why?