

**LPUNEST PhD: Nanotechnology**  
**(Sample Questions)**

- QUESTION 1      Nanotechnology deals with structures in the size range of  
Option A      1-100 nm  
Option B      100-1000 nm  
Option C      1-10  $\mu\text{m}$   
Option D      1-10 mm
- QUESTION 2      The increase in surface area to volume ratio in nanomaterials leads to  
Option A      Decreased reactivity  
Option B      Increased reactivity  
Option C      No change  
Option D      Reduced conductivity
- QUESTION 3      Quantum confinement effect is significant when  
Option A      Size is large  
Option B      Size is nanoscale  
Option C      Size is macroscopic  
Option D      Temperature is high
- QUESTION 4      0D nanomaterials include  
Option A      Nanotubes  
Option B      Nanofilms  
Option C      Quantum dots  
Option D      Nanorods
- QUESTION 5      1D nanomaterials include  
Option A      Nanoparticles  
Option B      Nanowires  
Option C      Thin films  
Option D      Bulk solid