### Assignment 1

**The assignment is intended for submitting the assignment by 11:00 AM.**

1. What's its minimum size a powder particle can have?
   - 1 nm
   - 50 micrometers
   - 1 cm
   - 1 mm
   - 10 cm
   - No powder is important.
   - Acarid features

2. Powder metallurgy techniques are suitable for
   - Welds and joints
   - Lasers
   - Pressforms
   - Dies of the above
   - No powder is important.
   - Acarid features

3. Which of the following is not a characteristic feature of metal powders?
   - High surface area
   - Plastic-like solid
   - Conductivity in a gas
   - Grain of the above
   - No powder is important.
   - Acarid features

4. The advantage of using powder processing techniques includes
   - The layering tendency to yield below the melting point of the material
   - The chemical reactions which cannot be accessed by conventional routes could be processed using powder metallurgy
   - Nuclear reactor metals because of the higher aspects surface area
   - All the above
   - No powder is important.
   - Acarid features

5. Which of the following products are best produced using powder metallurgy techniques?
   - Steel pipes
   - Electrical steel rails
   - Coal cinder bricks
   - Cement bricks
   - No powder is important.
   - Acarid features

6. Which of the following uses powder metallurgy techniques?
   - Ceramic
   - Nuclear power
   - Nuclear power plants
   - Plastic materials
   - No powder is important.
   - Acarid features

7. Which of the following will have a higher melting point or a reduced melting point?
   - Green body or sintered bond
   - Sintered body or green bond
   - No powder is important.
   - Acarid features

8. Which of the following is not a technological method of powder technology?
   - Hot pressing
   - Rolling
   - Ultrasonicattraction
   - No powder is important.
   - Acarid features

9. Rolling results in
   - Mechanical alloying
   - Changing the geometry of material density, hardening etc.
   - Changing the surface roughness
   - Conformal plastic deformation
   - No powder is important.
   - Acarid features

10. Sintering results in
    - Changes in density
    - Porosity in solid
    - No powder is important.
    - Acarid features

11. Which of the following processes is not in the process of sintering?
    - Hot pressing
    - Rolling
    - No powder is important.
    - Acarid features

12. Sintering results in
    - Changes in density
    - No powder is important.
    - Acarid features

13. Which of the following processes during sintering of powders, the depositions occur instead of powder deposition?
    - Hot pressing
    - Sintering
    - No powder is important.
    - Acarid features

14. Which of the following techniques involve melting of the materials?
    - Thermal decomposition
    - Hot pressing
    - No powder is important.
    - Acarid features

15. Which of the following techniques involve melting of the materials?
    - Hot pressing
    - Sintering
    - No powder is important.
    - Acarid features

16. Which of the following techniques involve melting of the materials?
    - Hot pressing
    - Sintering
    - No powder is important.
    - Acarid features