# Week-08: Assignment-08

The due date for submitting this assignment has passed.

**Due on 2021-09-22, 23:59 IST.**

As per our records you have not submitted this assignment.

1)  During mechanical/ball milling, nanocrystalline materials form at                                    *1 point*

○ Room Temperature
○ Elevated Temperature
○ Cryogenic Temperature
○ All of the above

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*All of the above*

2)  During sintering, the coalescence of the powder particles occurs due to                               *1 point*

○ Pressure
○ Temperature
○ Pressure and Temperature
○ Composition

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*Pressure and Temperature*

3)  Top-Down approach to synthesize nanomaterials is _____ approach.                                 *1 point*

○ Destructive
○ Non-destructive
○ Energy Intensive
○ Energy Intensive

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*Destructive*

4)  The stress strain relationship for a perfectly elastic material is (K – constant)                     *1 point*

○ Stress  = K*strain
○ Stress > K*strain
○ Stress < K*strain
○ None of the above

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*Stress  = K*strain*

5)  The point of change of slope at the upper end of the linear region of the stress-strain curve is       *1 point*

○ Fracture Point
○ Ultimate Tensile Strength
○ Yield Point
○ Proof Stress

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*Yield Point*

6)  Brinell Hardness Test involves the use of _____ indenter.                                        *1 point*

○ Conical
○ Pyramidal
○ Diamond
○ Spherical

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*Spherical*

7)  The relationship between the stress and strain for the plastic region of the stress-strain curve is given by:   *1 point*

○ Stress  = K*strain
○ Stress  = K*strain^n
○ Stress  = K/strain
○ Stress  = K(1+strain)^n

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*Stress  = K*strain^n*

8)  The relationship between dislocation line (L) and Burger vector (b) for screw dislocation is           *1 point*

○ b is parallel to L
○ b is perpendicular to L
○ Both
○ None

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*b is parallel to L*

9)  The material which involves the strain begin dependent on time and temperature is known as            *1 point*

○ Elastic
○ Plastic
○ Viscoelastic
○ Brittle

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*Viscoelastic*

10) According to Hall-Petch effect, the strength of a material is dependent on the grain size as          *1 point*

○ Strength increases with increasing grain size
○ Strength increases with decreasing grain size
○ Strength is independent of the grain size
○ Strength become equal to grain size.

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*Strength increases with decreasing grain size*