Assignment 2

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Due on 2019-03-13, 23:59 IST.

1) __________ is mechanical property that provides a measure of a material to withstand shock and the extent of plastic deformation in the event of rupture. 1 point

- Toughness
- Resilience
- Hardness
- Strength

No, the answer is incorrect.
Score: 0
Accepted Answers:
Toughness

2) __________ is mechanical property of engineering material and refers to the resistance of a material against abrasion / scratching / indentation. 1 point

- Toughness
- Resilience
- Hardness
- Strength

No, the answer is incorrect.
Score: 0
Accepted Answers:
Hardness

3) __________ is the property that enables an engineering material to resist deformation under load. 1 point

- Toughness
- Resilience
4) ________ is a measure of the ability of material to conduct heat. 

- Thermal conductivity
- Thermal diffusivity
- Specific heat
- None of these

No, the answer is incorrect. 
Score: 0
Accepted Answers:
Thermal conductivity

5) According to physical and mechanical and chemical properties, copper is used for:

- Transport of chemical substances
- Heat exchanger
- Bike frames
- All of above

No, the answer is incorrect. 
Score: 0
Accepted Answers:
Heat exchanger

6) Selection procedure of material includes basic steps in the following order:

1. Translation
2. Supporting information
3. Ranking
4. Screening

1-3-4-2
1-4-3-2
2-3-1-4
None of these

No, the answer is incorrect. 
Score: 0
Accepted Answers:
1-4-3-2

7) Factors influencing material selection are:

- Material properties
- Manufacturing considerations and environmental issues
- Cost analysis
- All of above

No, the answer is incorrect. 
Score: 0
Accepted Answers:
All of above

8) The ________ refers to the measure of energy that is required to change the temperature for a unit mass.

- Strength
- Thermal conductivity
- Thermal diffusivity
- Specific heat
- None of these

No, the answer is incorrect. 
Score: 0
Accepted Answers:
Thermal conductivity
9) The ________ refer to the parameters that can be adjusted in order to optimize the objective.  

- Free Variables  
- Constraints  
- Function  
- None of above  

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
Specific heat

10) The thermal diffusivity refers to the ratio of _________ and _______ of a material and provides a measure of the rate of heat conduction.  

- thermal conductivity, heat capacity  
- heat capacity, thermal conductivity  
- thermal conductivity, specific heat  
- specific heat, thermal conductivity

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
thermal conductivity, heat capacity