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Courses » Manufacturing Guidelines for Product Design

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Unit 3 - Week 2

Register for Certification exam

Course outline

How to access the portal

Week 1

Week 2

Engineering Materials

Properties of materials

Selection of materials-I

Selection of materials-II

Applications of Engineering Material

Quiz : Assignment 2

Solution for Assignment-2

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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

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Strength

4) _____ is a measure of the ability of material to conduct heat.

1 point

- 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:

1 point

- 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 point

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:

1 point

- 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.

1 point

- Specific heat
- Heat capacity
- Both a and b
- None of above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Specific heat

9) The _____ refer to the parameters that can be adjusted in order to optimize the objective.

1 point

- Free Variables
- Constraints
- Function
- None of above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Free Variables

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

1 point

- 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

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