

Unit 2 - Week 1

Course outline

How to access the portal?

Week 1

- Introduction Physics of Materials
- Properties of Materials
- Thermal Expansion
- Quiz : Assignment 1
- Week 1 Feedback Form : Physics of Materials

Week 2

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VIDEO DOWNLOAD

Text Transcripts

Assignment 1

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-08-14, 23:59 IST.

Indicate if the statements are True or False

1) It is important to understand the exact thermal profile of a flame in order to use it for cooking 1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

2) A model is useful only if it can predict data over the full range of experimental conditions 1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

3) Empirical models are useful even if the underlying science is not understood 1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

4) There are no instances where the theoretical prediction has been made even before the experiment has been conducted 1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

5) For all materials as temperature increases, electrical resistance increases 1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

6) Mechanical properties of materials remain the same regardless of the condition under which it is tested 1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

7) Some excellent conductors of heat, may not be excellent conductors of electricity 1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

8) Metals typically expand on heating 1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

9) Thermal expansion of different materials becomes equal once they are in contact with each other 1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

10) A shallow and wide E vs r curve implies large coefficient of thermal expansion 1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True