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NPTEL

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Courses » Introduction To Composites

Announcements **Course** Ask a Question Progress FAQ

## Unit 2 - WEEK 01

Register for  
Certification exam

### Course outline

#### How to access the portal

#### WEEK 01

- Lecture 01:  
Definition of the  
composite  
materials
- Lecture 02:  
Composite  
materials and  
its applications.
- Lecture 03:  
Classification of  
the composite  
materials.
- Lecture 04:  
Fibers Strength
- Lecture 05:  
Advantages  
and limitations  
of composite  
materials.
- Lecture 06:  
Advantages  
and limitations  
of composite  
materials.
- Quiz :  
Assignment 1
- Introduction To  
Composites - II

## Assignment 1

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-02-13, 23:59 IST.**

1) Which of the following material is a composite? **1 point**

- Graphite
- Epoxy
- Granite
- None of these are correct

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Granite*

2) By adding metal rods or wires to the concrete can increase \_\_\_\_\_. **1 point**

- Compressive and bending strength
- Tensile and bending strength
- Compressive strength only
- Bending strength only

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Tensile and bending strength*

3) Which of the following material is not composite material? **1 point**

- Plywood
- Polyethylene terephthalate (PET)
- Glass fiber composite
- Granite

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|                     |   |  |  |
|---------------------|---|--|--|
| WEEK 03             | ce De   | <input type="radio"/> Unidirectional   |  |
| WEEK 04             |   | <input type="radio"/> Bidirectional  |  |
| WEEK 05             |   | <input type="radio"/> Multidirectional   |  |
| WEEK 06             |   | <input type="radio"/> None of the options are correct.   |  |
| WEEK 07             |   | <b>No, the answer is incorrect.</b>  |  |
| WEEK 08             |   | <b>Score: 0</b>  |  |
| WEEK-09             |   | <b>Accepted Answers:</b>   |  |
| WEEK-10             |   | <i>Unidirectional</i>  |  |
| WEEK-11             |   | 5) If material properties are different at different locations then material is formed as _____ . <b>1 point</b> |  |
| WEEK 12             |   | <input type="radio"/> Isotropic  |  |
| DOWNLOAD VIDEOS     |   | <input type="radio"/> Orthotropic  |  |
| Interaction Session |   | <input type="radio"/> Homogeneous  |  |
|                     | <input type="radio"/> Non homogeneous   |  |  |
|                     | <b>No, the answer is incorrect.</b>   |  |  |
|                     | <b>Score: 0</b>   |  |  |
|                     | <b>Accepted Answers:</b>  |  |  |
|                     | <i>Non homogeneous</i>  |  |  |
|                     | 6) Composite materials can be classified on the basis of _____ . <b>1 point</b>   |  |  |
|                     | <input type="radio"/> Type of matrix material.  |  |  |
|                     | <input type="radio"/> Type of reinforcement material.   |  |  |
|                     | <input type="radio"/> Both of the options are correct.  |  |  |
|                     | <input type="radio"/> None of the options are correct.  |  |  |
|                     | <b>No, the answer is incorrect.</b>   |  |  |
|                     | <b>Score: 0</b>   |  |  |
|                     | <b>Accepted Answers:</b>  |  |  |
|                     | <i>Both of the options are correct.</i>   |  |  |
|                     | 7) Composites are used in aerospace industry because they: <b>1 point</b>   |  |  |
|                     | <input type="radio"/> are non-metallic.   |  |  |
|                     | <input type="radio"/> have high strength to weight ratio.   |  |  |
|                     | <input type="radio"/> of their aesthetic appeal.  |  |  |
|                     | <input type="radio"/> are easy to manufacture.  |  |  |
|                     | <b>No, the answer is incorrect.</b>   |  |  |
|                     | <b>Score: 0</b>   |  |  |
|                     | <b>Accepted Answers:</b>  |  |  |
|                     | <i>have high strength to weight ratio.</i>  |  |  |
|                     | 8) Sometimes during manufacturing of fibers, waviness appears on the surface of the composite. This is usually due to: <b>1 point</b> |  |  |
|                     | Where, $\alpha_f$ = thermal expansion coefficient of fiber.   |  |  |
|                     | $\alpha_m$ = thermal expansion coefficient of the matrix.   |  |  |
|                     | <input type="radio"/> Orthotropy  |  |  |
|                     | <input type="radio"/> $\alpha_f \neq \alpha_m$  |  |  |
|                     | <input type="radio"/> $\alpha_f = \alpha_m$   |  |  |
|                     | <input type="radio"/> Anisotropy  |  |  |

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

$$\alpha_f \neq \alpha_m$$

9) In sandwich composites, which of the following material can be used as a filler? **1 point**

- Wood dust
- Cement
- Talc
- All of the options are correct.



**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*All of the options are correct.*

10) Which of the following is usually the stronger constituent of a composite laminate? **1 point**

- Matrix
- Reinforcement
- Both
- None of the options are correct.

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Reinforcement*

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