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Courses » Introduction To Composites

Announcements **Course** Ask a Question Progress FAQ

Unit 3 - WEEK 02

Register for
Certification exam

Course outline

How to access
the portal

WEEK 01

WEEK 02

- Lecture 07:
Different Types
of Fiber
- Lecture 08:
Glass Fibers
- Lecture 09:
Graphite Fibers
- Lecture10:
Aramid and
Boron Fibers
- Lecture11:
Ceramic Fibers
- Lecture12:
Matrix –
Properties and
classifications.
- Quiz :
Assignment 02
- Introduction To
Composites - II
- Week 2
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- Assignment 2
Solution

Assignment 02

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) If a composite is used in an acidic environment, then which of the following fibers may be suitable. **1 point**

- R-glass
 C-glass
 D- glass
 E- glass

No, the answer is incorrect.

Score: 0

Accepted Answers:

C-glass

2) Which of the following statements are true? **1 point**

1. Properties of the glass fiber are the same along the fiber and across the fiber.
2. Glass has a crystalline structure.

- only 1
 only 2
 Both 1 and 2
 Neither 1 nor 2

No, the answer is incorrect.

Score: 0

Accepted Answers:

only 1

3) **Assertion (A):** As compared to carbon fiber, glass fiber has less elongation before breaking. **1 point**

Reason (R): Viscosity plays an important role in the manufacturing of glass fibers.

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WEEK 07	ce De	No, the answer is incorrect. Score: 0	
WEEK 08		Accepted Answers: <i>R is true but A is false</i>	
WEEK-09		4) Which of the following statements are true for the glass fiber? 1 point	
WEEK-10		1. Glass fibers are useful thermal insulators.	
WEEK-11		2. Glass fiber has a high ratio of surface area to weight.	
WEEK 12		3. Humidity is an important factor influencing the tensile strength of glass fibers.	
DOWNLOAD VIDEOS		<input type="radio"/> 1 and 2 <input type="radio"/> 2 and 3 <input type="radio"/> only 2 <input type="radio"/> all	  
Interaction Session	No, the answer is incorrect. Score: 0		
	Accepted Answers: <i>all</i>		
	5) Assertion (A): Carbon fiber has seen limited success in metal matrix composite applications. 1 point		
	Reason (R): The atomic structure of carbon fiber is similar to that of graphite, consisting of sheets of carbon atoms arranged in a regular hexagonal pattern.		
	<input type="radio"/> Both A and R are true and R is the correct explanation of A <input type="radio"/> Both A and R are true but R is NOT the correct explanation of A <input type="radio"/> A is true but R is false <input type="radio"/> A is false but R is true		
	No, the answer is incorrect. Score: 0		
	Accepted Answers: <i>Both A and R are true but R is NOT the correct explanation of A</i>		
	6) Which of the following statement is correct for the carbon fiber? 1 point		
	<input type="radio"/> Graphite is an amorphous material while carbon is a crystalline material. <input type="radio"/> Graphite is a crystalline material while carbon is an amorphous material. <input type="radio"/> Both carbon and graphite are crystalline materials. <input type="radio"/> Both carbon and graphite are amorphous materials.		
	No, the answer is incorrect. Score: 0		
	Accepted Answers: <i>Graphite is a crystalline material while carbon is an amorphous material.</i>		
	7) Arrange the following events in their order of occurrence. 1 point		
	<input type="radio"/> Graphitization - Melt spinning - Oxidization - Carbonization <input type="radio"/> Melt spinning - Carbonization - Oxidization - Graphitization <input type="radio"/> Melt spinning - Oxidization - Carbonization - Graphitization <input type="radio"/> Carbonization - Oxidization - Melt spinning - Graphitization		
	No, the answer is incorrect. Score: 0		

Accepted Answers:*Melt spinning - Oxidization - Carbonization- Graphitization*8) **During the production of carbon fibers, carbonization is used to.....** 1 point

- improve the alignment and orientation of the crystalline regions along the fiber direction
- cross-link the fibers
- removing all non-organic elements
- None of these

No, the answer is incorrect.**Score: 0****Accepted Answers:***removing all non-organic elements*9) **Assertion (A): In carbon fiber production process, oxidization is also known as stabilization process.** 1 point**Reason (R): It produces fibers that are stable at the high temperatures of carbonization and graphitization**

- Both A and R are true and R is the correct explanation of A
- Both A and R are true but R is NOT the correct explanation of A
- A is true but R is false
- A is false but R is true

No, the answer is incorrect.**Score: 0****Accepted Answers:***Both A and R are true and R is the correct explanation of A*10) 

1 point

- a-2,b-1,c-5,d-3,e-4
- a-2,b-5,c-3,d-1,e-4
- a-4,b-3,c-1,d-5,e-2
- a-4,b-3,c-2,d-5,e-1

No, the answer is incorrect.**Score: 0****Accepted Answers:***a-4,b-3,c-2,d-5,e-1*[Previous Page](#)[End](#)

