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?
   - 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 __________.
   - 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?
   - Plywood
   - Polyethylene terephthalate (PET)
   - Glass fiber composite
   - Granite

   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Plywood
5) If material properties are different at different locations then material is formed as ________. 1 point

- Isotropic
- Orthotropic
- Homogeneous
- Non homogeneous

No, the answer is incorrect.
Score: 0
Accepted Answers:
- Non homogeneous

6) Composite materials can be classified on the basis of ______________. 1 point

- Type of matrix material.
- Type of reinforcement material.
- Both of the options are correct.
- None of the options are correct.

No, the answer is incorrect.
Score: 0
Accepted Answers:
- Both of the options are correct.

7) Composites are used in aerospace industry because they: 1 point

- are non-metallic.
- have high strength to weight ratio.
- of their aesthetic appeal.
- are easy to manufacture.

No, the answer is incorrect.
Score: 0
Accepted Answers:
- have high strength to weight ratio.

8) Sometimes during manufacturing of fibers, waviness appears on the surface of the composite. This is usually due to:

Where, $\alpha_f$ = thermal expansion coefficient of fiber.
$\alpha_m$ = thermal expansion coefficient of the matrix.

- Orthotropy
- $\alpha_f \neq \alpha_m$
- $\alpha_f = \alpha_m$
- Anisotropy
9) In sandwich composites, which of the following material can be used as a filler?  
- 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?  
- Matrix
- Reinforcement
- Both
- None of the options are correct.

No, the answer is incorrect.  
Score: 0

Accepted Answers:
- Reinforcement