

WORK SHEET

UNIT-I

MCQS

1. Composite material is made of
  - A) Single phase
  - B) Two or more phases
  - C) Only metals
  - D) Only polymers

**Answer: B**

2. Matrix phase mainly provides
  - A) Strength
  - B) Shape and support
  - C) Reinforcement
  - D) Hardness

**Answer: B**

3. Reinforcement phase provides
  - A) Weakness
  - B) Strength and stiffness
  - C) Color
  - D) Shape

**Answer: B**

4. Classification based on matrix includes
  - A) Fiber composites
  - B) Polymer composites
  - C) Laminates
  - D) Particulates

**Answer: B**

5. Laminates belong to
  - A) Particle composites
  - B) Structural composites
  - C) Fiber composites
  - D) None

**Answer: B**

6. Advantage of composites is
  - A) High weight
  - B) Low strength
  - C) High strength-to-weight ratio
  - D) Brittleness

**Answer: C**

7. Natural composite example
  - A) Steel
  - B) Wood
  - C) Aluminum

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D) Copper

**Answer: B**

8. Matrix protects reinforcement from

A) Environment

B) Load

C) Heat

D) Stress

**Answer: A**

9. Reinforcement is usually

A) Continuous/discontinuous

B) Liquid

C) Gas

D) None

**Answer: A**

10. Matrix transfers

A) Color

B) Load

C) Shape

D) Size

**Answer: B**

11. Structural composites include

A) Laminates

B) Fibers

C) Powders

D) Liquids

**Answer: A**

12. Composite materials are widely used in

A) Aerospace

B) Agriculture

C) Food

D) Paper

**Answer: A**

13. Reinforcement improves

A) Strength

B) Weakness

C) Color

D) Shape

**Answer: A**

14. Matrix is usually

A) Continuous phase

B) Discontinuous phase

C) Gas

D) Liquid

**Answer: A**



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15. Composite materials have

- A) Low stiffness
- B) High stiffness
- C) No stiffness
- D) Zero strength

**Answer: B**

**Fill in the Blanks**

1. Composite materials consist of \_\_\_\_\_ phases.
2. The \_\_\_\_\_ binds the reinforcement.
3. Fibers act as \_\_\_\_\_.
4. PMCs stands for \_\_\_\_\_.
5. Composites have high \_\_\_\_\_ to weight ratio.
6. Wood is a \_\_\_\_\_ composite.
7. Reinforcement improves \_\_\_\_\_.
8. Matrix protects fibers from \_\_\_\_\_.
9. Laminates are \_\_\_\_\_ composites.
10. Matrix transfers \_\_\_\_\_ to fibers.

**Answers:**

1. two
2. matrix
3. reinforcement
4. Polymer Matrix Composites
5. strength
6. natural
7. strength
8. environment
9. structural
10. load

  
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