

WORK SHEET
UNIT-V

MCQS

1. Density is defined as
 - A) Mass/Volume
 - B) Volume/Mass
 - C) Force/Area
 - D) None

Answer: A

2. Stress is
 - A) Force/Area
 - B) Area/Force
 - C) Mass/Volume
 - D) None

Answer: A

3. Strain is
 - A) Force/Area
 - B) Change in length/original length
 - C) Mass/Volume
 - D) None

Answer: B

4. Load transfer occurs from
 - A) Fiber to matrix
 - B) Matrix to fiber
 - C) Air to fiber
 - D) None

Answer: B

5. Longitudinal direction is
 - A) Parallel to fiber
 - B) Perpendicular to fiber
 - C) Circular
 - D) None

Answer: A

6. Transverse direction is
 - A) Parallel
 - B) Perpendicular
 - C) Angular
 - D) None

Answer: B

7. Young's modulus measures
 - A) Strength
 - B) Stiffness
 - C) Density
 - D) Weight

Answer: B



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8. Rule of mixtures is used for
A) Density
B) Elastic properties
C) Strength
D) All of the above

Answer: D

9. Composite materials are
A) Isotropic
B) Anisotropic
C) Homogeneous
D) None

Answer: B

10. Fiber carries
A) Less load
B) Major load
C) No load
D) None

Answer: B

11. Matrix function is
A) Load transfer
B) Protection
C) Support
D) All

Answer: D

12. Failure may occur due to
A) Cracks
B) Weak bonding
C) Overloading
D) All

Answer: D

13. Elastic modulus of fiber is
A) Low
B) High
C) Zero
D) None

Answer: B

14. Density of composite depends on
A) Fiber only
B) Matrix only
C) Both
D) None

Answer: C

15. Halpin-Tsai equations are used for
A) Thermal properties
B) Elastic properties
C) Chemical properties



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D) None

Answer: B

Fill in the Blanks

1. Density = _____ / Volume
2. Stress = Force / _____
3. Strain = _____ / original length
4. Load transfer occurs from _____ to fiber
5. Longitudinal direction is _____ to fiber
6. Transverse direction is _____ to fiber
7. Young's modulus indicates _____
8. Rule of mixtures calculates _____
9. Composite materials are _____
10. Failure occurs due to _____ or cracks

Answers

1. Mass
2. Area
3. Change in length
4. Matrix
5. Parallel
6. Perpendicular
7. Stiffness
8. Composite properties
9. Anisotropic
10. Weak bonding


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