Assignment 4

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1) Compressive testing of composites is carried
   - In-plane of the composite
   - Across the plane of the composite
   - At an angle to the horizontal plane
   - At an angle to the vertical plane
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - In-plane of the composite

2) Flexural properties of the composites are a property influenced by
   - Tensile characteristics alone
   - Shear characteristics alone
   - Tensile and compressive but not shear properties
   - Combined effects of tensile, compressive and shear properties
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Combined effects of tensile, compressive and shear properties

3) To simplify the bending stress state in the specimen, which of the following statement(s) is/are true for “flexural testing of composite”?
   - Tensile stress component is minimized
   - Shear stress component is minimized
   - Compressive stress component is minimized
   - Tensile, shear and compressive stresses are minimized in equal proportion
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Tensile stress component is minimized

4) With reference to three point bending test of the composite, the correct statement(s) is/are
   - The top surface of the composite specimen undergoes extension
   - The top surface of the composite specimen undergoes compression
   - The bottom surface of the composite specimen undergoes extension
   - The bottom surface of the composite specimen undergoes compression
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   The top surface of the composite specimen undergoes extension
   The bottom surface of the composite specimen undergoes extension

5) Void content is given by
   Void Content = \( \frac{V}{A} \)
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - \( V \) is theoretical density of composite
   - \( A \) is experimental density of composite

6) With reference to Dynamic Mechanical Analysis (DMA) test of composite, tan(\( \delta \)) indicates
   - Storage modulus
   - Damping behavior
   - Ratio of storage modulus to loss modulus
   - Ratio of loss modulus to storage modulus
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Damping behavior
   Ratio of loss modulus to storage modulus

7) The non-destructive test for composite, amongst the following is/are
   - Leaf impact test
   - In-plane compression test
   - Ultrasonic inspection
   - Thermographic inspection
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Ultrasonic inspection
   Thermographic inspection