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Centre for Civil Engg. Competitive Exams
TRIVANDRUM | KOLLAM | ERANAKULAM
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Quiz
ANSWER KEY

QUIZ NO: 462

TOPIC: MECHANICS OF SOLIDS

DATE: 01/07/2021

1. **The Stress at a point is a:**

    [A] Vector

    [B] Tensor

    [C] Scalar

    [D] None of the above

    Answer: B

2. **The stress based on actual area of cross section during tension stage of a mild steel specimen is called:**

    [A] Nominal stress

    [B] Normal stress

    [C] Yield stress

    [D] True Stress

    Answer: D

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3. **A strut is a member which is primarily subjected to:**

    [A] Axial tension

    [B] Flexural compression

    [C] Axial compression

    [D] Flexural Tension

    Answer: C

4. **Shear strain is defined as:**

    [A] Change in angle between planes at right angles

    [B] Rate of change of angle

    [C] Change in angle between two planes

    [D] Distortion of fibers

    Answer: A

5. **The property of material by which it can be beaten (or) rolled into plates is called:**

    [A] Ductility

    [B] Plasticity

    [C] Malleability

    [D] Elasticity

    Answer: C

6. **For Engineering Materials, Poisson's ratio lies between:**

    [A] -ve to 0.5

    [B] 0 to 1

    [C] 0 to 0.5

    [D] -1 to 1

    Answer: C

7. **If an element is subjected to pure shearing stress 'q', then the maximum principal stress is equal to:**

    [A] 2q

    [B] q/2

    [C] q

    [D] q^2

    Answer: C

8. **Number of independent reaction components for a hinges support are:**

    [A] 0

    [B] 2

    [C] 1

    [D] 3

    Answer: B

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9. **The point of contra flexure are the points where**

   [A] SF is zero

   [B] Deflection is zero

   [C] BM and SF is zero

   [D] None of the above

   Answer: D

10. **Moment of inertia of section is lowest if it is taken about an axis passing through:**

   [A] Base of the section

   [B] Top most point of section

   [C] Centroid

   [D] Any of the above

   Answer: C

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