

QUIZ NO: 364

TOPIC: MECHANICS OF SOLIDS

DATE: 12/11/2020

1. A beam is subjected to a linearly varying load from one end to other end. The nature of variation of shear force diagram is?

- [1] Parabolic
- [2] Cubic
- [3] Elliptic
- [4] Straight line

Answer : A

2. Point of contra flexure in a beam is the point where bending moment?

- [1] Changes sign
- [2] Zero
- [3] Maximum
- [4] Minimum

Answer : A

3. In any beam, bending stress at extreme fibre and neutral axis are respectively?

- [1] Infinity and zero
- [2] Maximum and infinity
- [3] Zero and maximum
- [4] Maximum and zero

Answer : D

4. Two shafts of diameters 'd' and '2d' are considered. The ratio of polar modulus of shaft later to the earlier is?

- [1] 1/8
- [2] 8
- [3] 16
- [4] 1/16

Answer : B

5. The phenomenon of slow extension of materials having constant load over a longer period is known as?

- [1] Breaking
- [2] Yielding
- [3] Creeping
- [4] None of these

Answer : C

6. The stress at which extension of a material takes place more quickly as compared to the increase in load is called?

- [1] Elastic limit
- [2] Yield point
- [3] Breaking point
- [4] Ultimate load point

Answer : B

7. The materials which shows same elastic properties in all directions at a point is known as?

- [1] Tough
- [2] Isotropic
- [3] Homogenous
- [4] Elastic

Answer : B

8. Along the principal plane in a stressed element?

- [1] Maximum shear stress acts
- [2] Minimum shear stress acts
- [3] Zero shear stress acts
- [4] None of these

Answer : C

9. The bending moment is maximum on a section where shear force?

- [1] Maximum
- [2] Changes sign
- [3] Minimum
- [4] None of these

Answer : B

10. The ratio of effective length of a column and minimum radius of gyration of its cross sectional area is known as?

- [1] Buckling factor
- [2] Slenderness ratio
- [3] Crippling factor
- [4] None of these

Answer : B

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