Assignment 0

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

Due on 2019-02-04, 23:59 IST.

1) Point of contra-flexure is
   (a) Where shear force changes sign
   (b) Where tensile force changes sign
   (c) Where bending moment changes sign
   (d) None of these

   No, the answer is incorrect.
   Score: 0
   Accepted Answers: c

2) The centre of gravity of a triangle is at the point where three
   (a) Medians of the triangle meet
   (b) Perpendicular bisectors of the sides of the triangle meet
   (c) Bisectors of the angle of the triangle meet
   (d) None of these

   Score: 0
3) If the shear force along a section of a beam is zero, the bending moment at the section is
(a) Zero
(b) Maximum
(c) Minimum
(d) None of these

No, the answer is incorrect.
Score: 0
Accepted Answers:

4) A simply supported beam of span L carries a concentrated load W at its mid span. The maximum bending moment is
(a) WL/2  (b) WL/4  (c) WL/8  (d) WL/12

No, the answer is incorrect.
Score: 0
Accepted Answers:

5) What is the increase in length of a bar of length L due to a tensile load P? Assume cross sectional area is A and elastic modulus of the bar is E.
(a) PL/(A2E)
(b) PL/(AE)
(c) PLE/A
(d) AE/(PL)

Score: 0
Accepted Answers:
6) Mohr’s circle is a graphical method to find the stresses.
   (a) Bending stresses
   (b) Principal stresses
   (c) Torsional shear stresses
   (d) None of these

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   b

7) What is the expression for modulus of rigidity (G) in terms of modulus of elasticity (E) and the Poisson’s ratio (μ)?
   (a) \[ G = \frac{3E}{2(1 + \mu)} \]
   (b) \[ G = \frac{5E}{2(1 + \mu)} \]
   (c) \[ G = \frac{E}{2(1 + \mu)} \]
   (d) \[ G = \frac{E}{1 + 2\mu} \]

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   c
Value of the unit weight of water is

(a) 9.81 kN/m³
(b) 9.81 kN/m²
(c) 9.81 N/m²
(d) 9.81 N/m³

No, the answer is incorrect.
Score: 0
Accepted Answers:
a