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NPTEL

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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 **1 point**

- (a) Where shear force changes sign
- (b) Where tensile force changes sign
- (c) Where bending moment changes sign
- (d) None of these

- a
- b
- c
- d

No, the answer is incorrect.

Score: 0

Accepted Answers:

c

2) The centre of gravity of a triangle is at the point where three **1 point**

- (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

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Score: 0**Accepted Answers:**

a

3) **1 point**

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 

- a 
- b 
- c 
- d 

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

b

4) **1 point**

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) $WL/12$

- a
- b
- c
- d

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

b

5) **1 point**

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) $PL/(A^2E)$
- (b) $PL/(AE)$
- (c) PLE/A
- (d) $AE/(PL)$

- a

- b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b



6) Mohr's circle is a graphical method to find

1 point

- (a) Bending stresses
(b) Principal stresses
(c) Torsional shear stresses
(d) None of these



- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b

7)

1 point

What is the expression for modulus of rigidity (G) in terms of modulus of elasticity (E) and the Poisson's ratio (μ)?

- (a) $G = 3E / [2(1 + \mu)]$
(b) $G = 5E / [(1 + \mu)]$
(c) $G = E / [2(1 + \mu)]$
(d) $G = E / (1 + 2\mu)$

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

c

8)

1 point

Value of the unit weight of water is

- (a) 9.81 kN/m^3
- (b) 9.81 kN/m^2
- (c) 9.81 N/m^2
- (d) 9.81 N/m^3

- a
- b
- c
- d

No, the answer is incorrect.

Score: 0

Accepted Answers:

a

End