Unit 6 - Week 4

Assignment 4

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

Due on 2019-08-28, 23:59 IST.

1) Basic differential equation governing the deflection of a beam is — 2 points

$$(a) \quad M = EI\frac{dy}{dx}$$

$$(b) \quad M = EI\frac{d^2y}{dx^2}$$

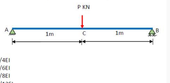
$$(c) \quad M = EI\frac{d^3y}{dx^3}$$

$$(d) \quad M = EI\frac{d^4y}{dx^4}$$

- (a)
- (b)
- (c)
- (d)

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

2) Find the value of deflection at point C of the following beam. EI = constant. — 2 points



a) P/4EI
b) P/6EI
c) P/8EI
d) P/12EI

- a)
- b)
- c)
- d)

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

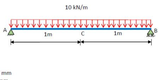
3) Find the value of slope at point A of the beam shown in question no 2. — 2 points

a) P/4EI (clockwise)
b) P/4EI (anti-clockwise)
c) P/8EI (clockwise)
d) P/8EI (anti-clockwise)

- a)
- b)
- c)
- d)

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

4) Find the value of deflection at point C of the following beam. Given that E=200 GPa, I=100 x 10^6 mm^4 — 2 points



a) 0.001 mm
b) 0.01 mm
c) 0.1 mm
d) 1 mm

- a)
- b)
- c)
- d)

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

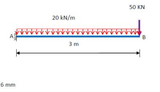
5) Find the value of slope at point A of the beam shown in Question no 4 — 2 points

a) 1.7E-03 rad (clockwise)
b) 1.7E-03 rad (anti-clockwise)
c) 1.7E-04 rad (clockwise)
d) 1.7E-04 rad (anti-clockwise)

- a)
- b)
- c)
- d)

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

6) Find value of deflection at point B of the following beam. Given E=200 GPa, I=100 x 10^6 mm^4. — 2 points



a) 0.0326 mm
b) 0.326 mm
c) 3.26 mm
d) 32.6 mm

- a)
- b)
- c)
- d)

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

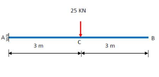
7) Find the value of slope at point B of the beam shown in Question no 6 — 2 points

a) 0.1575 rad
b) 0.01575 rad
c) 0.001575 rad
d) 0.0001575 rad

- a)
- b)
- c)
- d)

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

8) Find the deflection value at point C of the following beam. Given E=200 GPa, I=100 x 10^6 mm^4. — 2 points



a) 0.011 mm
b) 0.11 mm
c) 1.1 mm
d) 11 mm

- a)
- b)
- c)
- d)

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

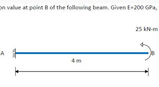
9) Find the value of deflection at point B of the beam shown in Question no 8 — 2 points

a) 2.2 mm
b) 2.8 mm
c) 22 mm
d) 28 mm

- a)
- b)
- c)
- d)

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

10) Find the deflection value at point B of the following beam. Given E=200 GPa, I=100 x 10^6 mm^4. — 2 points



a) 1 mm (downward)
b) 1 mm (upward)
c) 10 mm (upward)
d) 10 kN (downward)

- a)
- b)
- c)
- d)

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

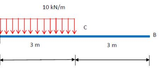
11) Find the value of slope at point B of the beam shown in Question no 10 — 2 points

a) 0.005 rad (clockwise)
b) 0.005 rad (anti-clockwise)
c) 0.001 rad (clockwise)
d) 0.001 rad (anti-clockwise)

- a)
- b)
- c)
- d)

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

12) Find the deflection value at point B of the following beam. Given E=200 GPa, I=100 x 10^6 mm^4. — 2 points



a) 0.000118 mm
b) 0.0118 mm
c) 11.8 mm
d) None of this

- a)
- b)
- c)
- d)

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

13) Find the value of slope at point C of the beam shown in Question no 12 — 2 points

a) 2.25 rad
b) 2.25E-02 rad
c) 2.25E-03 rad
d) 2.25E-04 rad

- a)
- b)
- c)
- d)

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

Rate this lesson:

Not at all useful | Not very useful | Somewhat useful | Very useful | Extremely useful