

Q:) Which of the following materials falls under the category of rigud materials when checking the dampness of a material?

(SSC JE 23-09-2019 morning)

Cement concrete

B: Bitumen felts

C: Polythene sheets

D: Mastic asphalt



Q:) Which of the following is NOT an advantage of using composite cement lime mortar over cement mortar? (SSC JE 25-09-2019 morning)

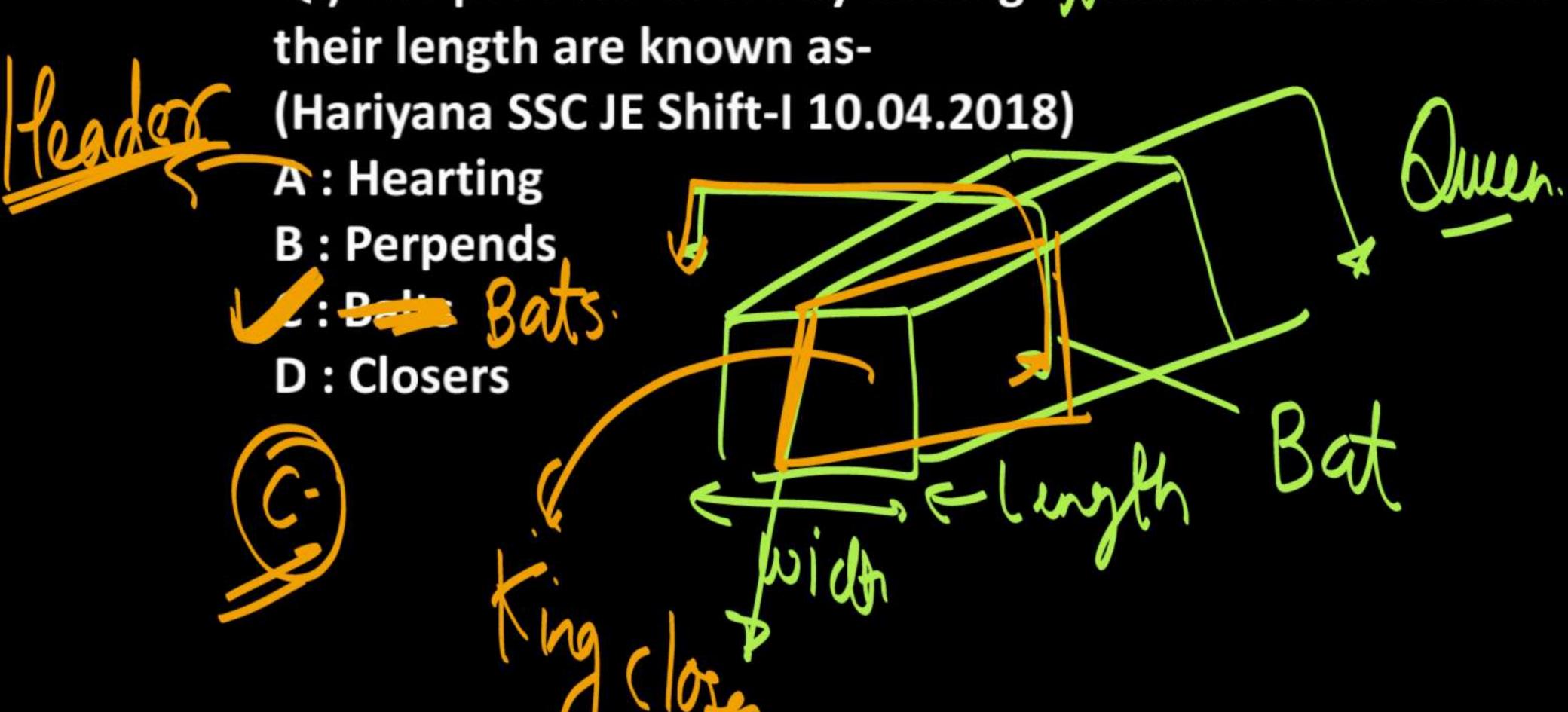
A: High workability

: High drying shrinkage

C: High water retention

D: Low drying shrinkage

Q:) The portions made by cutting standard bricks across their length are known as-



Q:) The vertical joints between bricks either in longitudinal or cross directions are termed as-(Hariyana SSC JE shift-II 11.04.2018/M.P. Sub Engg.

Draftman 1 Sep 2018 9.00 am) 4/10/15

A: Cross joints

B: Bed joints

: Perpends

D: Backing



Q:) In case of rukes for the doductions for brickwork, NO deduction shall be made of: Civik ESIC JE 2019 A: Openings upto 1.5 m² Copenings upto 0.1 m² C: Openings upto 2 m² D: Openings upto 1.1 m² 70 a depth of 100mm

Q:) A bull nose brick is not used for (Rajasthan PCS 2018)

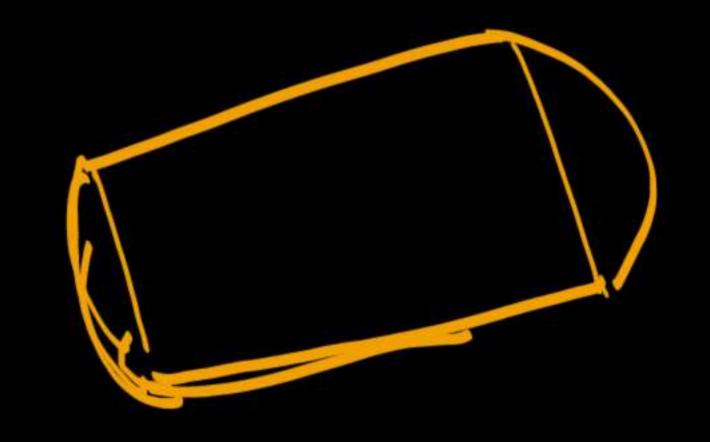
A: Rounding off sharp corners

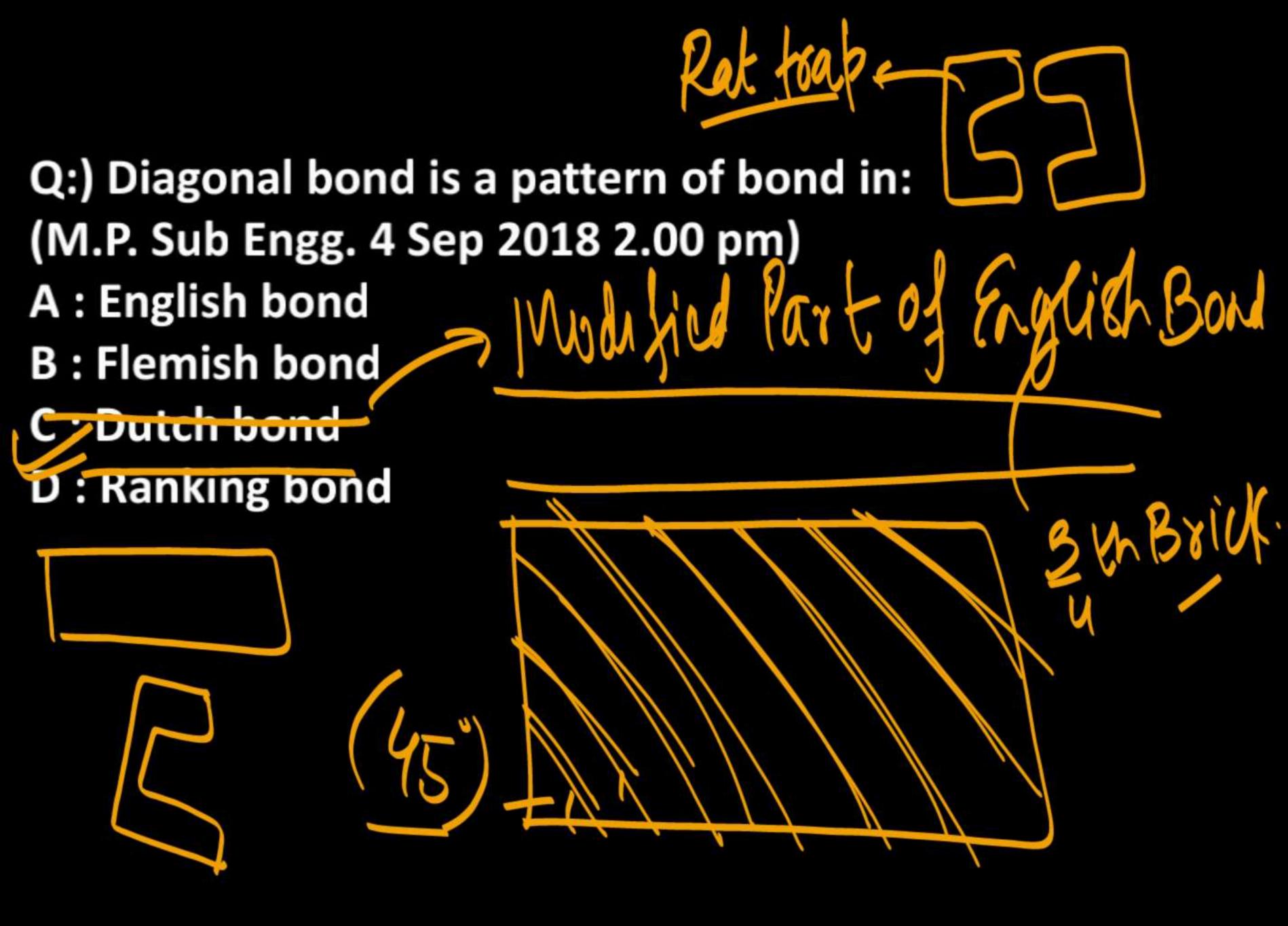
B: Pillars

C: Decoration purpose









Q:) Ashlar stone masonry is measured in: (DMRC 18.04.2018 4.20 pm)

.: Cum

B:kg

C: Running m

D:sqm





Q:) Plastering is also called: (SSC JE 27-01-2018 evening shift)

A: Pre-casting









Q:) What is the thickness (inches) of the one brick wall made up of tranditional brick?

B: 10

C: 18

D:20

Q:) What is the value of allowable compressive stress under concentrated load in brick masonary as compared to uniform load conditions?(M.P. SUB ENG 3

april morning 2016)

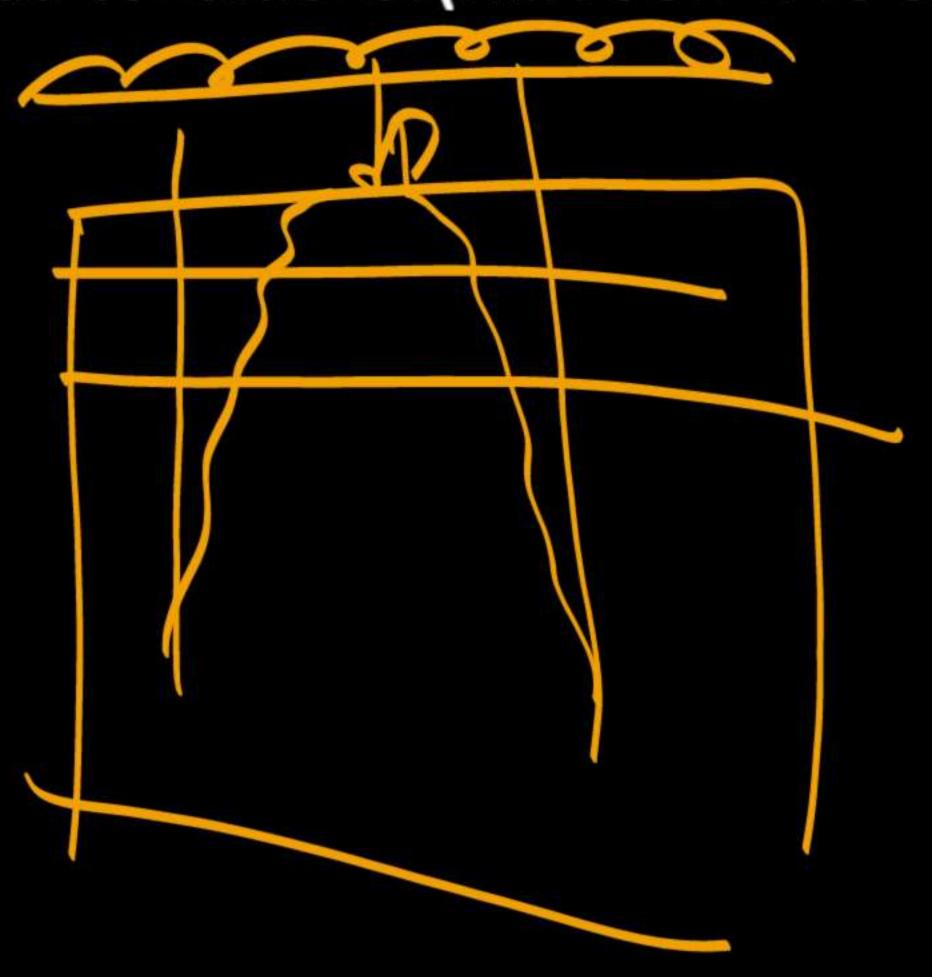
A: Same as

B: Less than

C: 25% more than

: 50% more than





Q:) The type of masonry in which the stones of irregular size and shapes are used and there are no regular

courses is known as

(D.S.S.S.B JE 2015)

A. Uncoursed rubble masonry

B: Coursed rubble masonary

C: Random rubble masonary

D: Dry rubble masonary



Chehal Milhod.

Q:) Main purpose(s) of state is/are (HPSSSB JE 31 april 2017)

A: To seal the surface against ingress of water

B: To develop skid resistance texture

C: To enkieven the existing dry surface

: All of teh above

D. 12mm thickmy Seal Coal.

Q:) As per IS 2185 (part 1): 2005, what is the minimum average compressive strength for open and closed cavity load bearing masonry units? (SSC JE 23-09-2019)

A: 1.5 N/mm²

3.5 N/mm²

C: 0.5 N/mm²

D: 2.5 N/mm²

Q:) A divide wall is provided-(RRB JE CBT-II 29-08-2019 evening)

A: At an inclination to the axis of weir

B: Parallel to the axis of weir and upstream of it

C: Parallel to the axis of weir and downstream of it



Q:) The short biebt wall constructed above roof slab in open terrace is called as

(RRB JE CBT-II 28-08-2019 morning)

A: Partition wall

B: Plinth wall

: Parapet wall

D: Boundary wall

Q:) A thin partition wall is measured in: (DMRC JE 12-04-2018, 12:15 pm)

 $A: m^4$

B : m³

C : m





Q:) The old type of wall foundation consisting of multiple steps of bricks or stone layers of gradually increasing width is called as-(RRB JE CBT-II 29-08-2019 evening) A: Linear footing B: Running footing Stepped footing D: Line footing or wall footing

Q:) The IS code recommends that the tilt for a well foundation should NOT exceed:
(Civil ESIC JE 2019)
A: 11011
C: 2004
C: 1/20

Q:) The common name for all doors, windows and such units are called as:

(RRB JE CBT-II 29-08-2019 evening)

A: Ventilators

B: Furniture

C: Shuttering

: Joinery

Q:) The cheapest way to prevent the fomation of diagonal bottom corner cracks in windows can be prevented by

(RRB JE CBT-II 28-08-2019 morning)

A: Providing RCC frame all round the rectangular opening

B: Using concrete blocks for wall instead of bricks

C: Providing circular shaped window openings instead

of rectangular opening

: Providing still beam



Q:) The height of still level floor level is-(Hariyana SSC JE Shift I 09-04-2018)

A: 700 mm to 800 mm

750 mm to 900 mm

C: 700 mm to 850 mm

D: 750 mm to 850 mm

Q:) The themical used in anti-treatment is-(Hariyana SSC JE Shift-I 10.04.2018)

C. DDT

B: Chloroform

C: Chlorine

D: Acid



Q:) The window provided on the sloping roof of a

building is called

(Rajasthan PSC 2018)

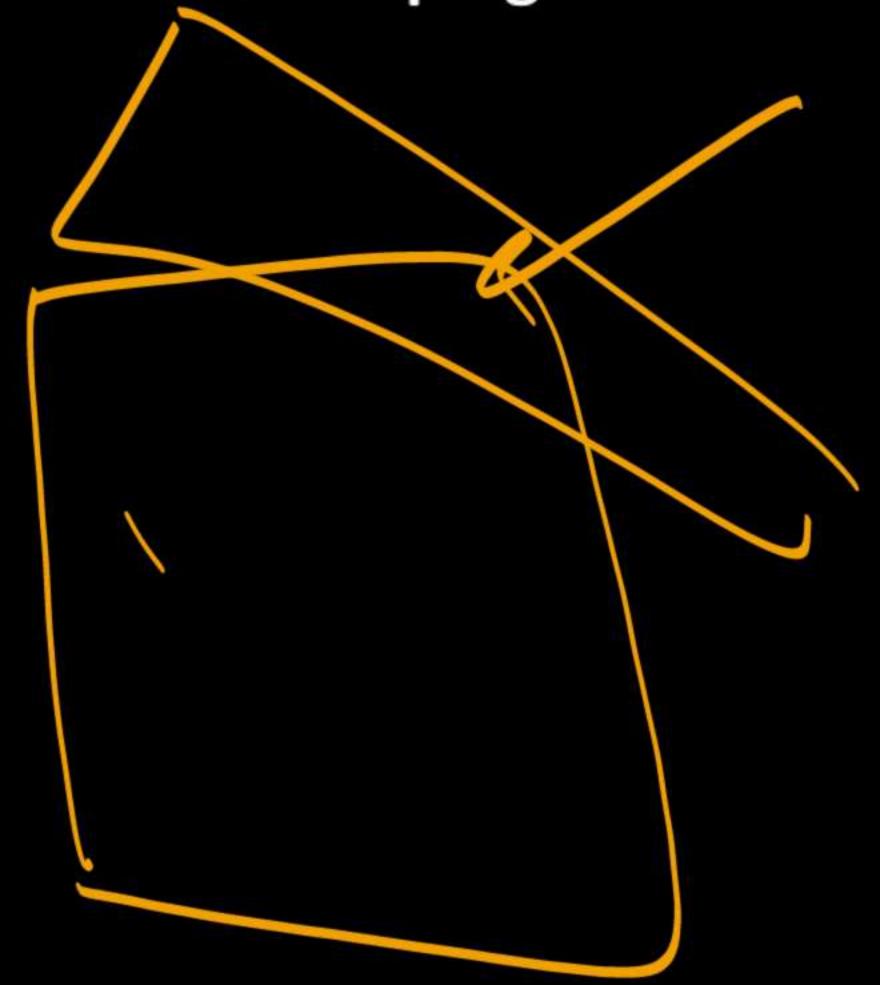
: Dorner window

B: Bay window

C: Sky light window

D: Glazed window





Q:) The permissible limit of moisture content for doors is:

(DMRC JE 13.04.2018 shift-II)

A: 11-13%

B: 12-20%

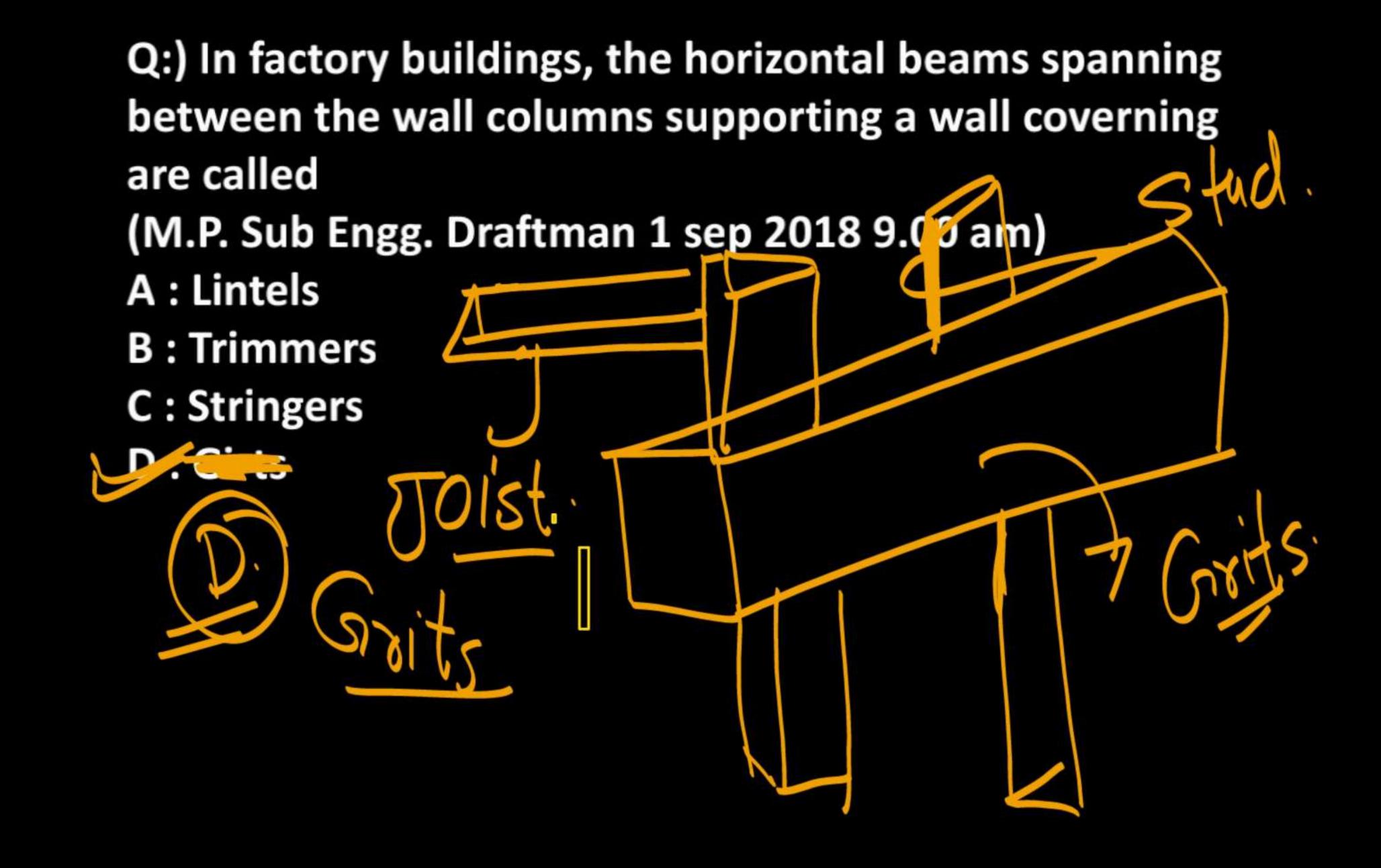
C: 7-9%

D: 3-5%

Q:) The projections of head or sill of a door or window frame are...

(MP Draftman JE 08-07-2017 AM/MPVYAPAM Sub Engg.





Q:) The function of coping is to serve as a (Hariyana SSC JE 2015)

Covering to the wall to throw off water

B: Ornamental course between lintel level and roof level

C: Projection from a wall to support a structural

member

D: Shade against solar radiation

Q:) In a two hinged parabolic arch an increase in termerature will-

UTTRAKHAND AE 2013)

A: Decrease the horizontal thrust

B: Increase the bending moment

Sincrease the horizontal thrust

D: Make no change in horizontal thrust



Q:) The angular steps used for changing direction of stairs are called:

(M.P. Sub Engg. 04-Sep-2018 9.00 am)

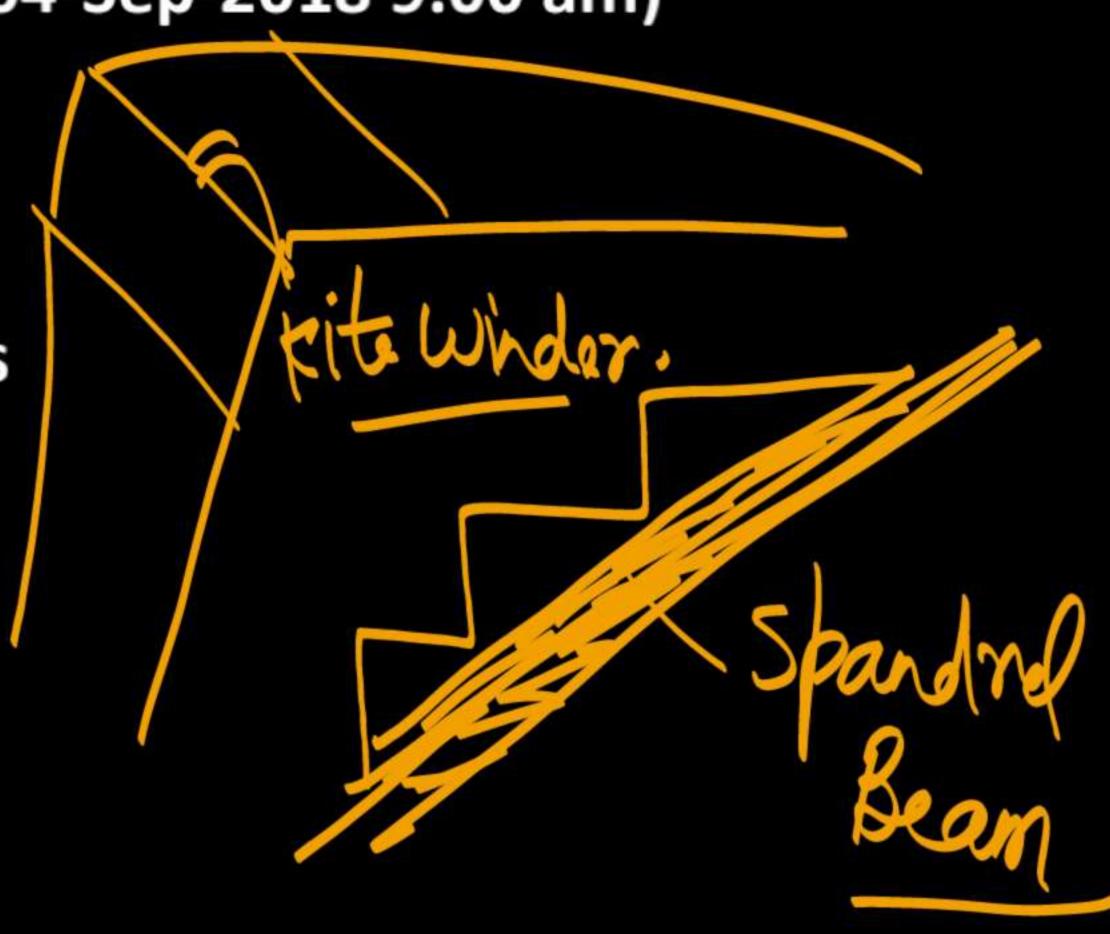
A: Radia; steps

B: Spandril

: Winders

D: Angular steps





Q:) In industrial buildings, to obtain a hard-wearing surface, the finishing provided above concrete topping is-

(UPRVUNL JE 2019)

A: Sand finish

B: Basalticfinishing Gunde Model -

D: Marble finishing

Q:) The common size of a floor tile is:

2001-2001-20mm.

(NMRC JE 2017)

: 200 × 200 × 20 mm

B: 225 × 225 × 22 mm

C: 150 × 150 × 18 mm

D: 160 × 160 × 20 mm

Q:) The scaffolding in which two rows of standards are provided is known as:

(SSB Himachal pradesh 18-11-2018)

A: Brick layer's scaffolding

B: Double scaffolding

C: Mason's scaffolding

: Both (B) & (C)

Ledge Brace

Q:) Which of the following is done in case of building new work underneath the existing structure without disturbing its stability?

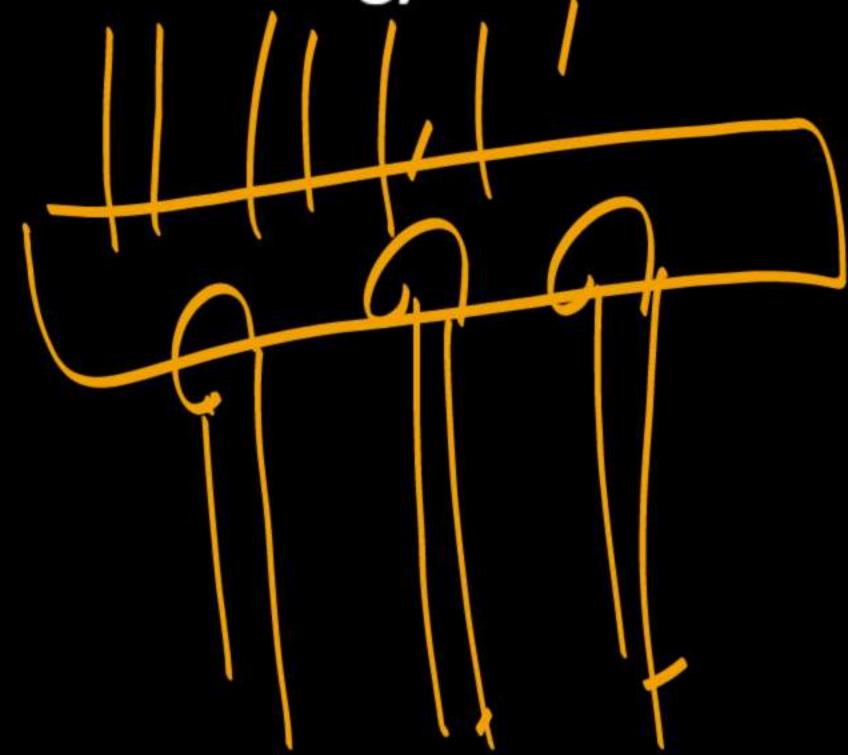
(MP VYPAM 08-07-2017 2nd meeting)

A: Shoring

: Underpinning

C: Flying shores

D: Scaffolding



Q:) Manalore tiles belong to the category of (RRB JE CBT-II 28-08-2019 morning)

A : Concrete tiles

B: Slate tiles

Burnt clay tiles

D: Mosaic tiles



Q:) A sloping roof having slope in four directions with a break in the slope is known as:

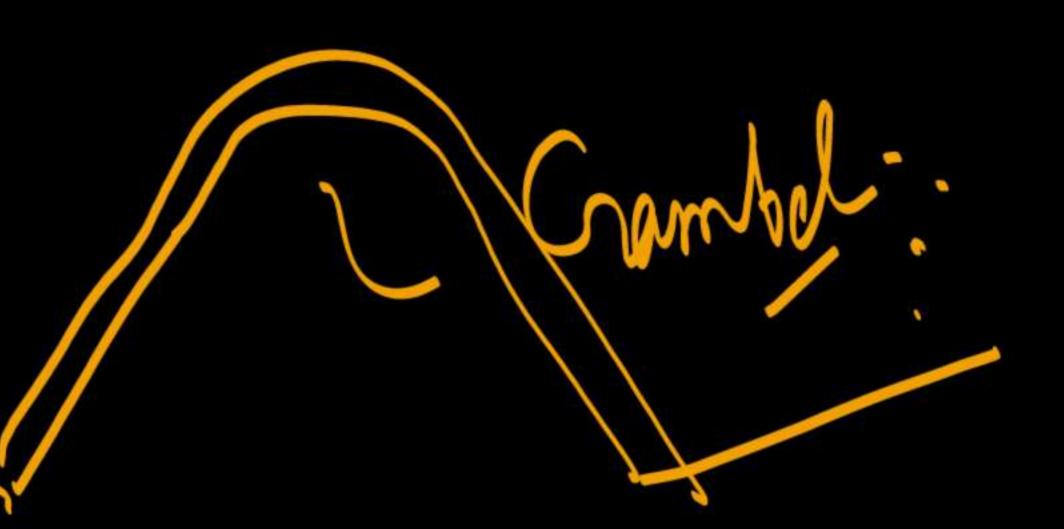
SSB Himachal pradesh 18-11-2018

A: Break roof

: Mansard roof

C: Gambrel roof

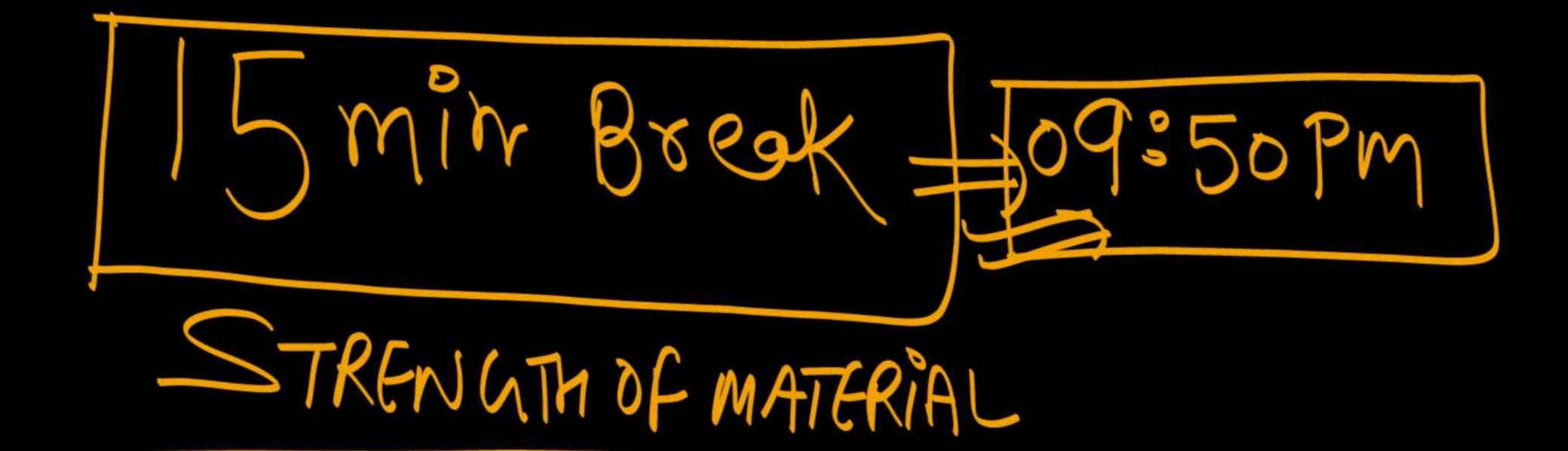
D: Hopped roof





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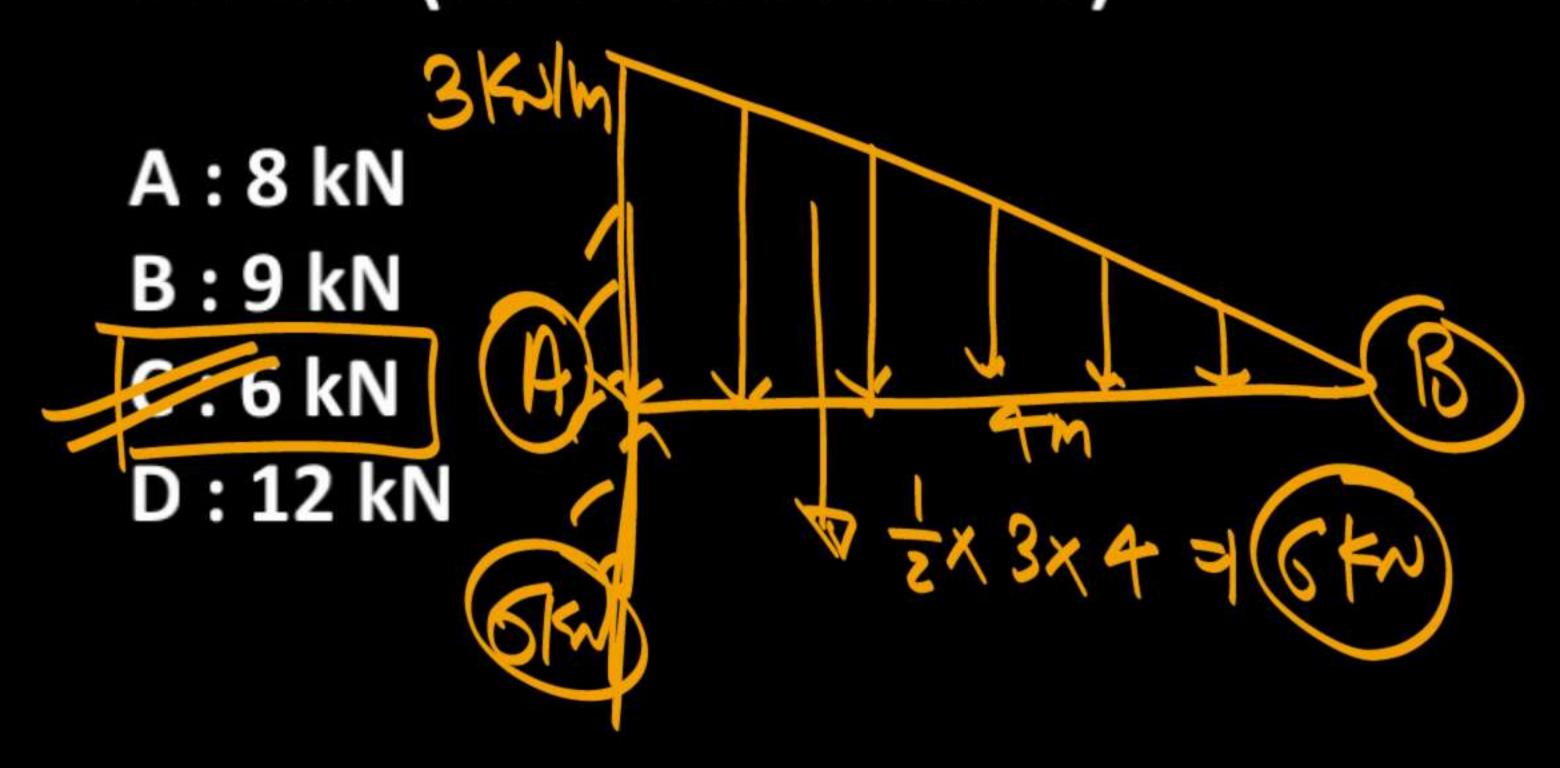
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Q:) In a overhanging beam ABC, AB = L and BC = a, C being the free end. If it is subjected to a vertical load W at free at end, maximum moment occurs at(RRB IF CRT-II 29-08-2019)

(RRB JE CBT-II 29-08-2019) **B** : A **C**: B D: Between A and B

Q:) A cantilever beam of span 4 m carries a gradually arraying load, zero intensity at the free end to 3kN/m at the fixed end. Magnitude of shear force at the fixed end will be- (UPRVUNL JE 2019)



Q:) The three moment theorem is used for solution of which type of beam? (Haryana SSC JE Shift-I 10.04.2018)

: Continuous beam

B: Fixed beam

C: Cantilever beam

D: Overhanging beam



:) In a comer-way continuous slab having simple support at the ends, the maximum bending moment will act at the: (Civil ESIC JE 2019)

Support next to the end support

B: Mid of the interior span

C: Mid of the end span

D: End support



Q:) Point of contra flexure in a beam occurs when the bending moment (BSPHCL JE Civil 29.01.2019 (Batch-2)

A: Is minimum

B: Is negative

C: Is maximum

D: Changes its sign

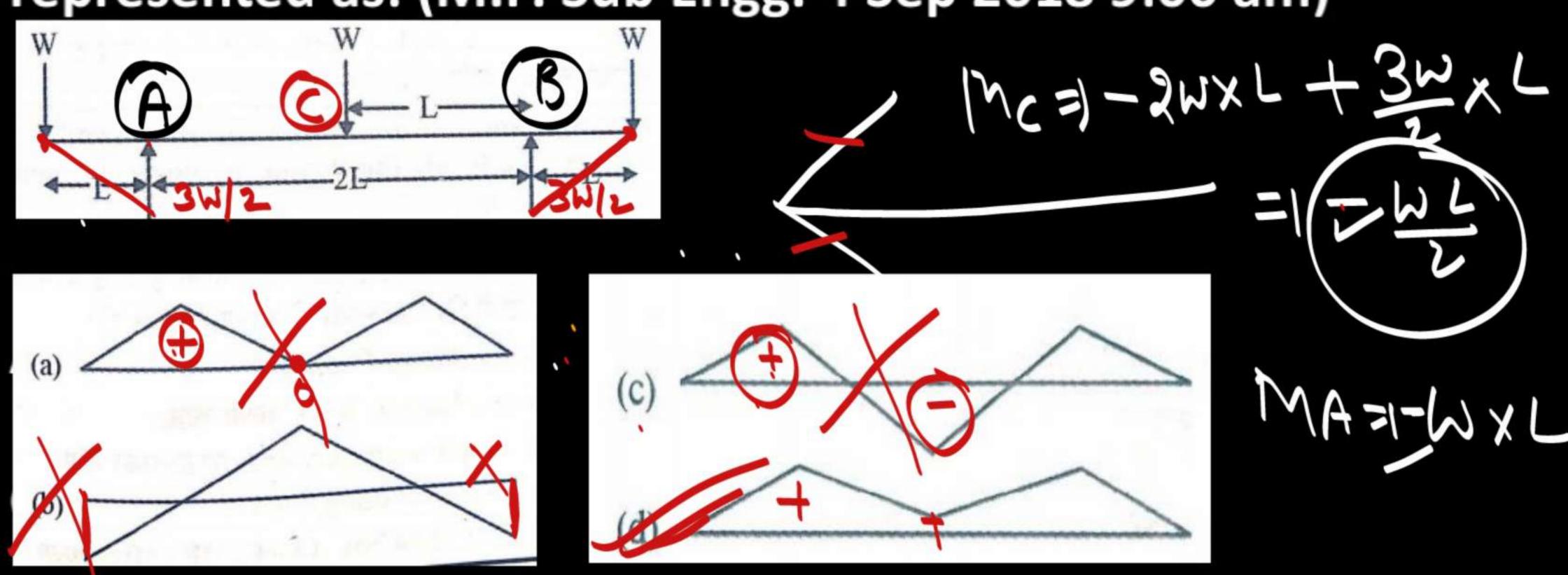
Bim (Diagran)

Point of inflection

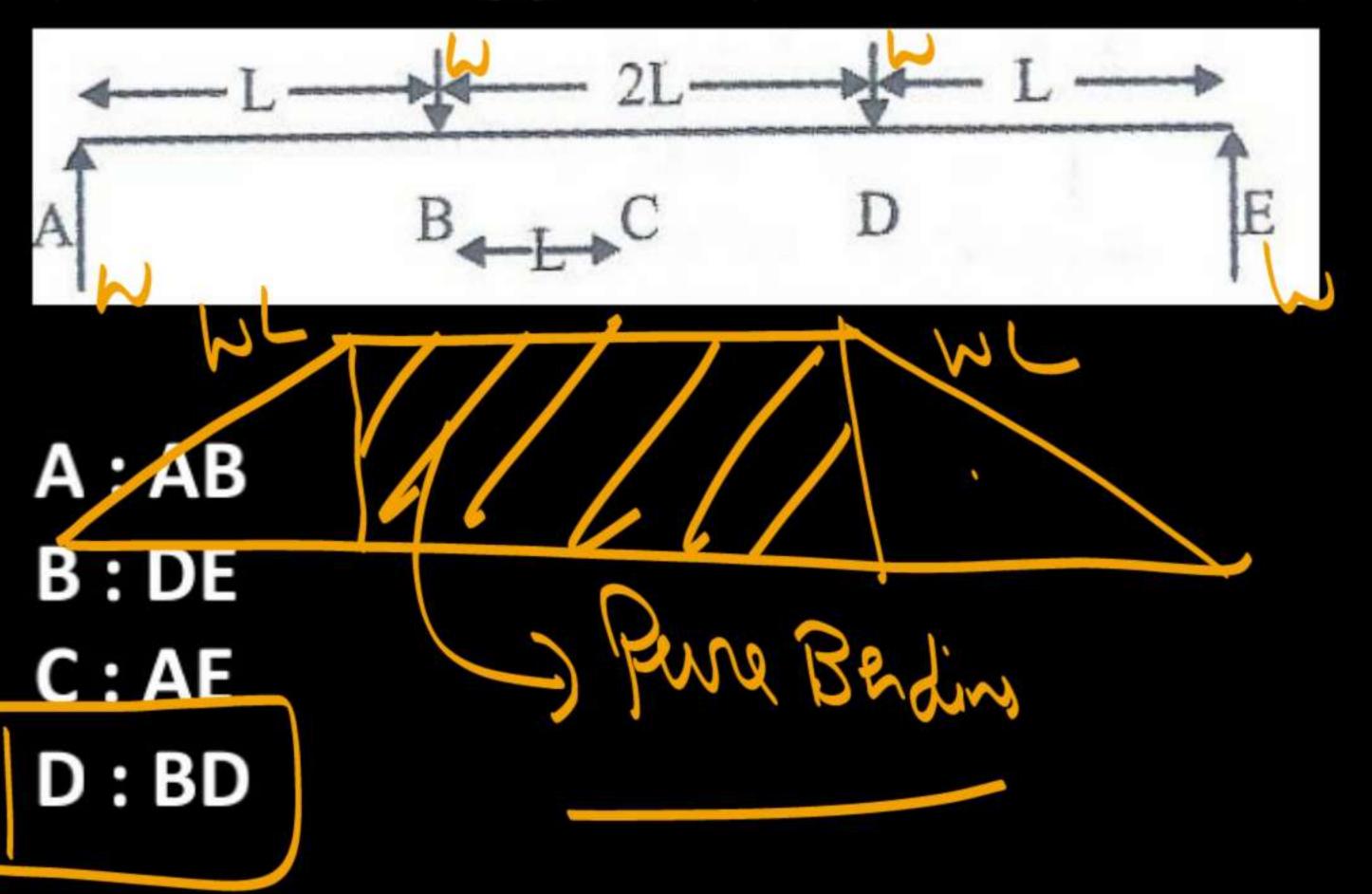
Deflected Shape

Q:) Consider the following statements: (NBCC JE 2017) If the simply supported beam of uniform cross-section is subjected to a clockwise moment at the left support and an equal anticlockwise moment at the right support, then the: 1. B.M.D. will be in the shape of a rectangle 2. S.F.D. will be straight line coinciding with the base 3. Deflection curve will be in the shape of a circular arc Of these statements A: 1, 2 and 3 correct B: 1 and 2 are correct C: 1 and 3 are correct D: 2 and 3 are correct

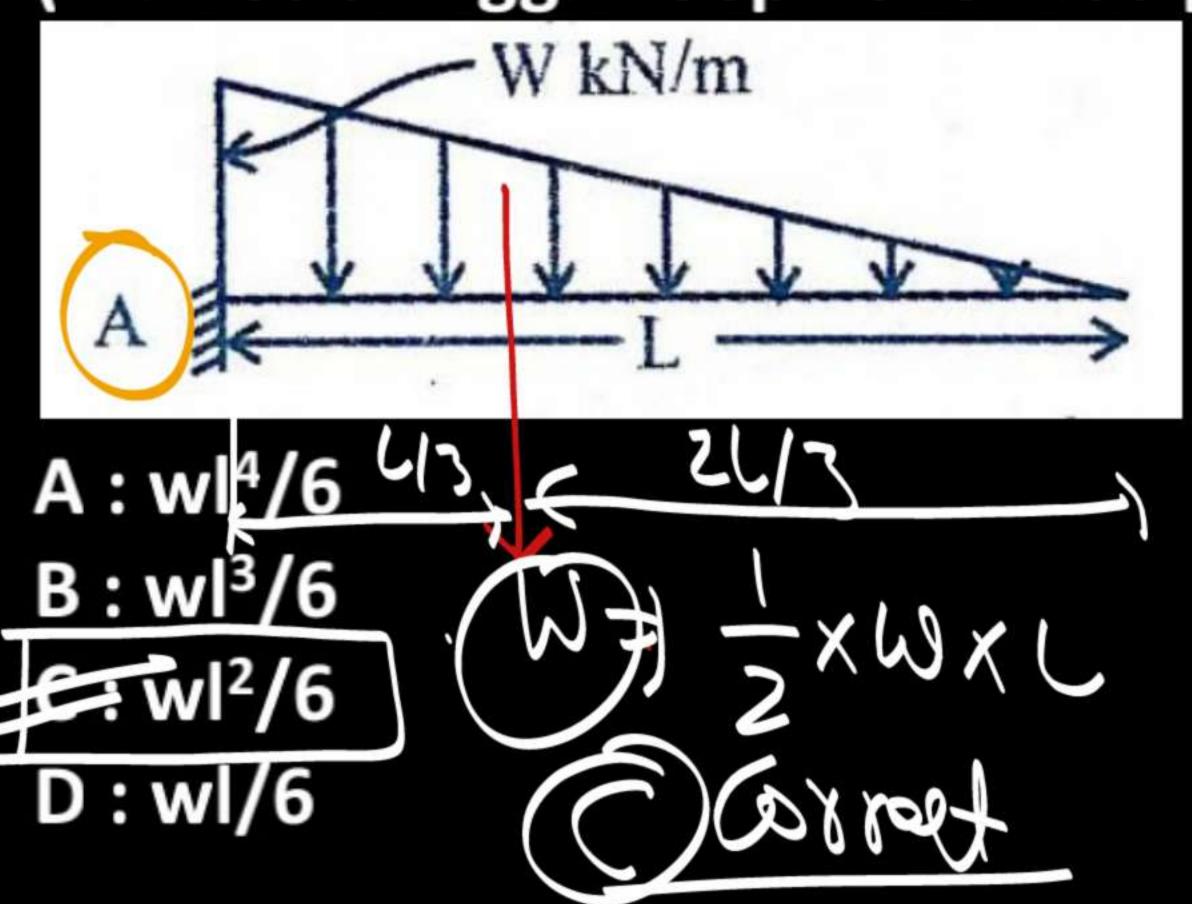
Q:) A loaded beam is shown in the given figure. The bending moment diagram of the beam is best represented as: (M.P. Sub Engg. 4 Sep 2018 9:00 am)

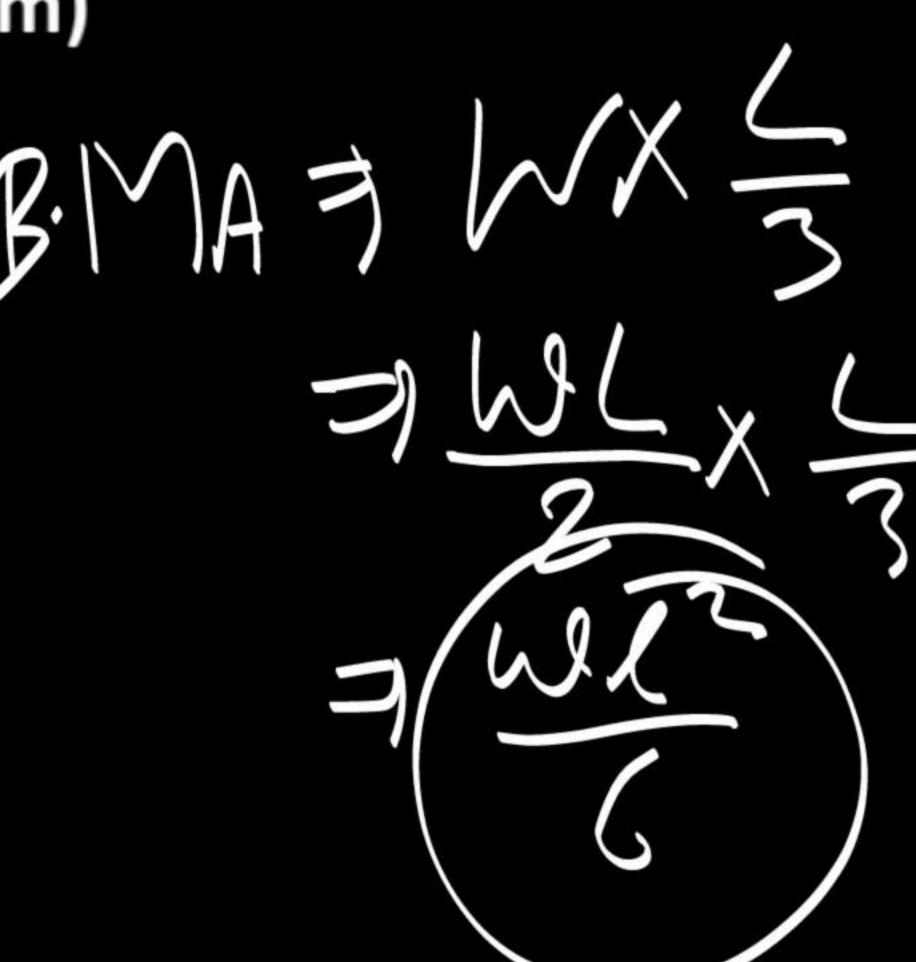


Q:) Which portions of the loaded beam shown in the given figure is subjected to pure bending? (M.P. Sub Engg. 4 Sep 2018 9.00 am)



Q:) The maximum bending moment at 'A' for beam shown in the given figure is given by:
(M.P. Sub Engg. 4 Sep 2018 2.00 pm)





Q:) What does the slope of a bending moment curve as a function of distance represent? (DDA 24.04.2018 (First Shift)

A: The stiffness at that location

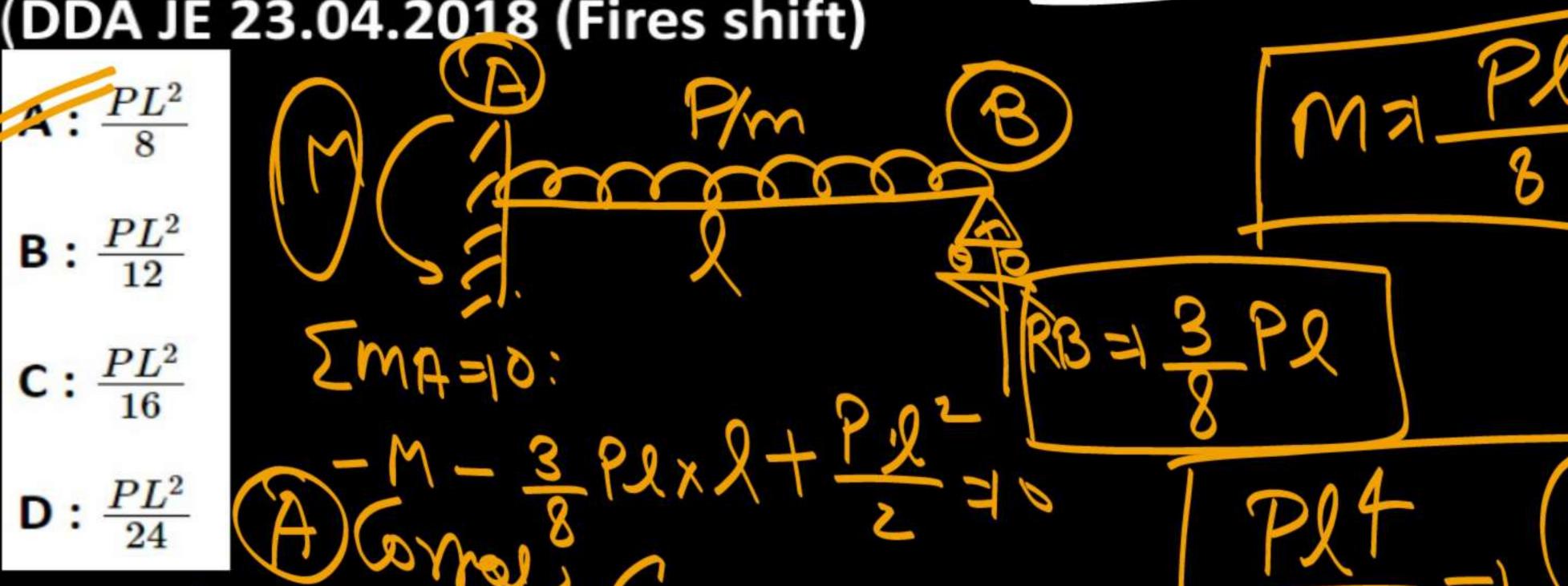
B. The shear force at that section

C: The load applied

D: The deflection

Q:) A propped cantilever beam of span L when loaded with a uniformly distributed load of intensity P will have a bending moment M at the fixed end, where M is:

(DDA JE 23.04.2018 (Fires shift)



Q:) Under a beam loading condition, if the bending moment is constant over a certain span length, then the shear would be: (Coal India 2016)

A . Zero

B: Decreasing

C: Constant and a non-zero value

D: Increasing



Q:) Which type of beam is supported only at one end by being built into a wall? (DFCCIL, 17-04-2016)

A: Curvature beam

B. Cantilever beam

C: Overhanging beam

D: Centroid beam

Q:) A simply supported beam carries two equal concentrated loads W at a distance L/3 from the either support. The value of maximum bending moment anywhere in the section will be

(Haryana SSC JE 2015/UPPCL JE 2013 Uttara hand

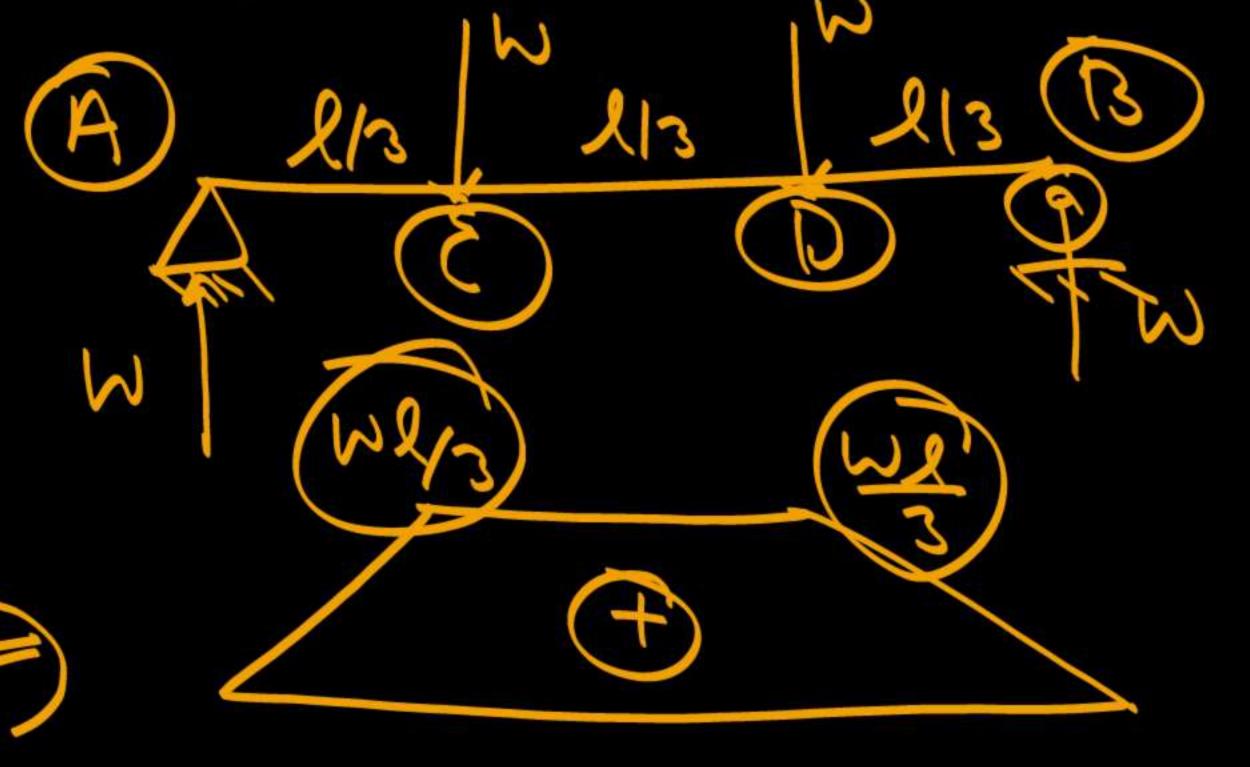
paper-I 2015)

A: WI/2

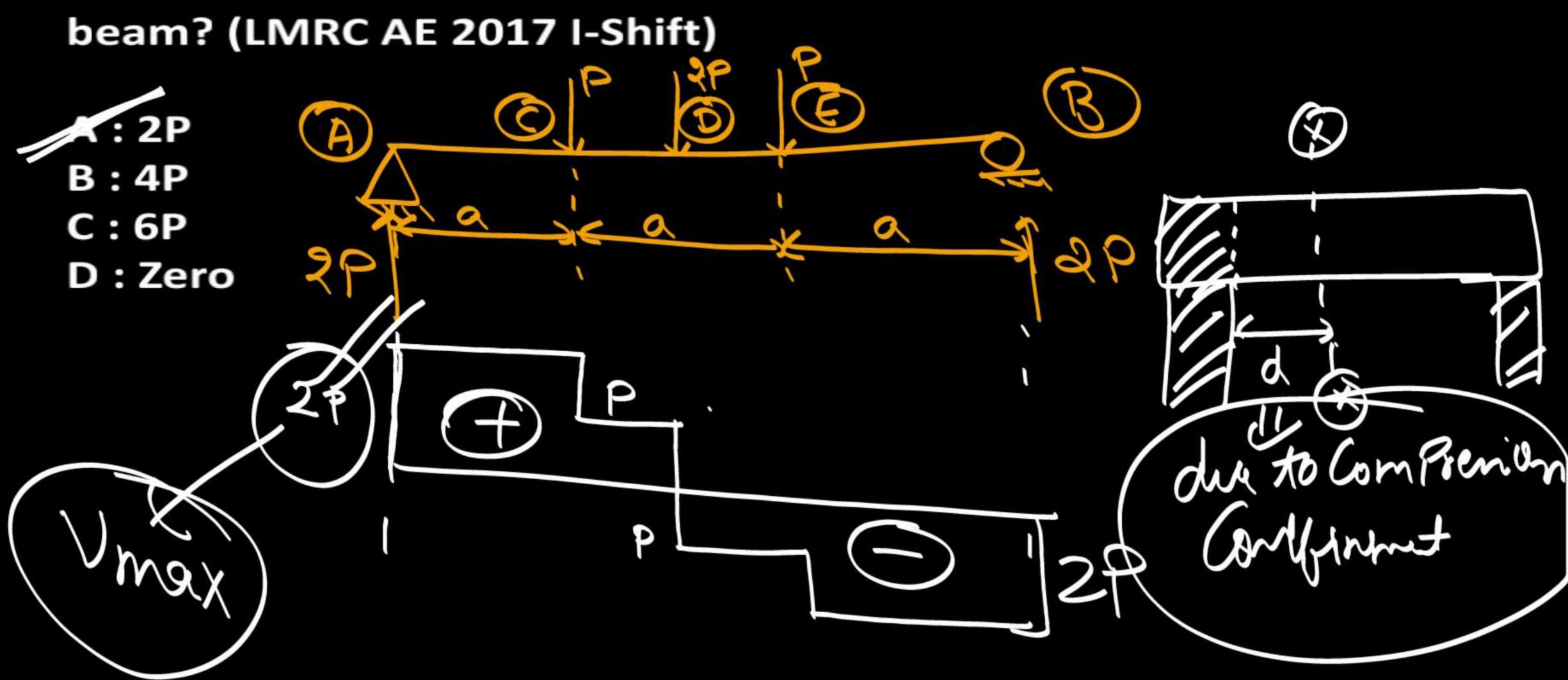
: WI/3

C: WI/4

D: WI/6



Q:) A simply supported beam of length '3a' supported three loads separated by distance 'a'. The middle load is 2P, while the loads at distance 'a' from each support are P each. What will be the maximum shear force in the beam? (LMRC AE 2017 I-Shift)



Q:) A bending moment causing concavity upward will be taken as ____ and called ____. (UPPCL JE 2016)

A: Positive sagging

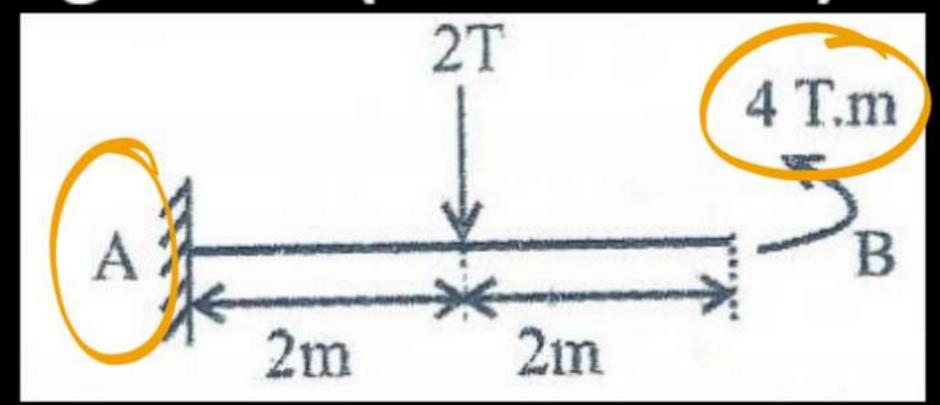
B: Positive hogging

C: Negative, sagging

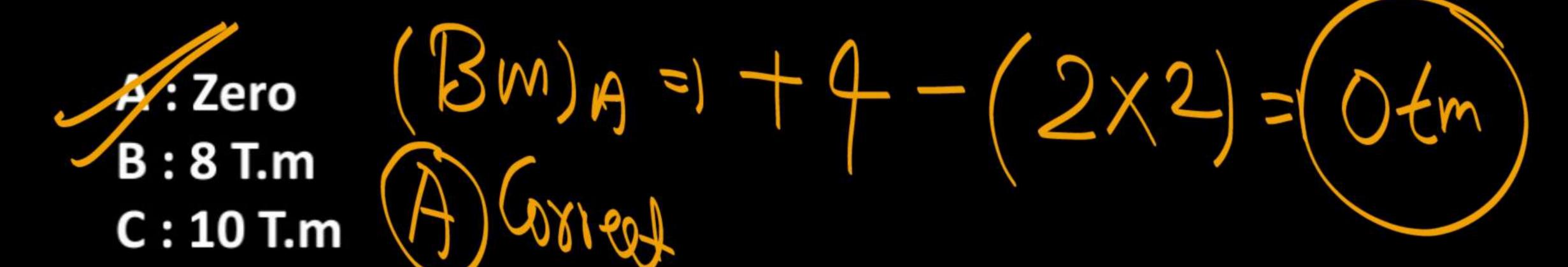
D: Negative, hogging



Q:) The B.M. of a cantilever beam at A shown in the figure is. (DMRC 2015)

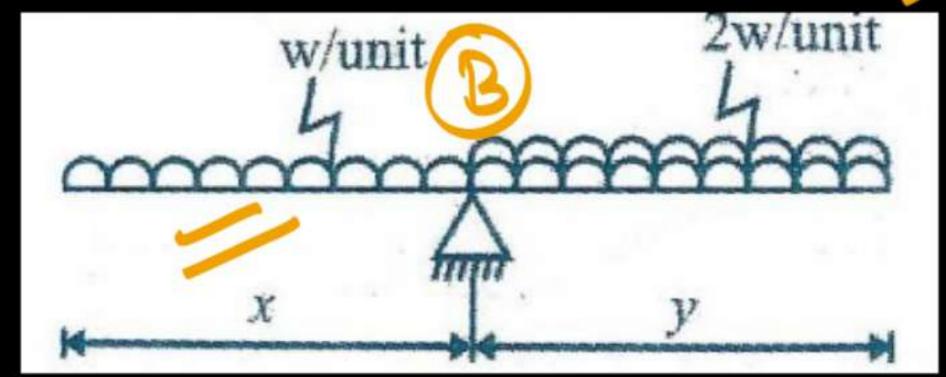


D: 16 T.m



Q:) In the following figure the beam will be stable

when- (UPPCL JE 2013) =) (Civil Service 1996)



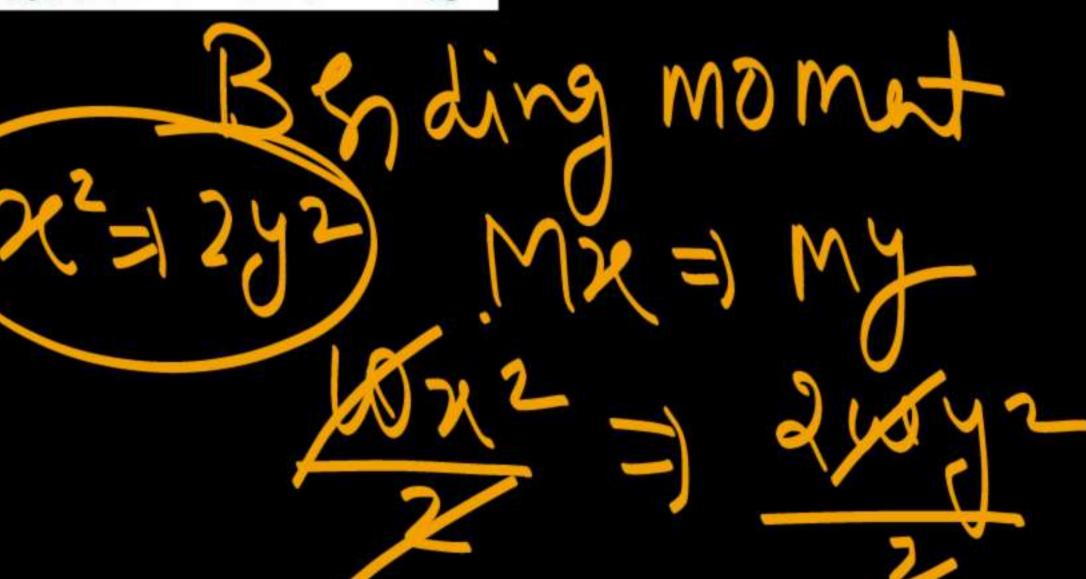


 $A: \sqrt{2}x=y$

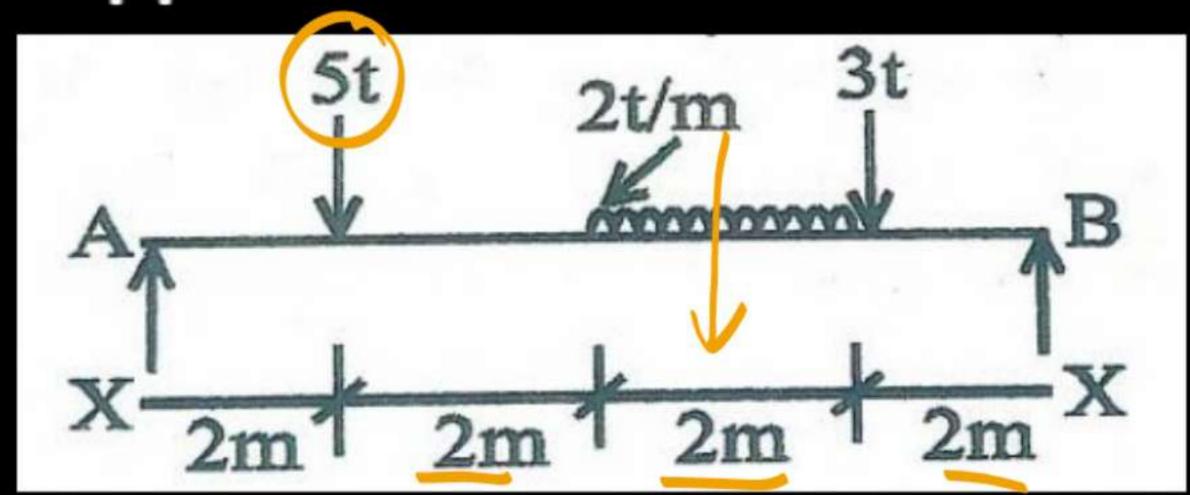
B:2x=y

C: x = 2y

D : x=√2y



Q:) The ratio of the reactions R_{Δ} & R_{R} of a simply supported beam shown below is: (DMRC 2015)

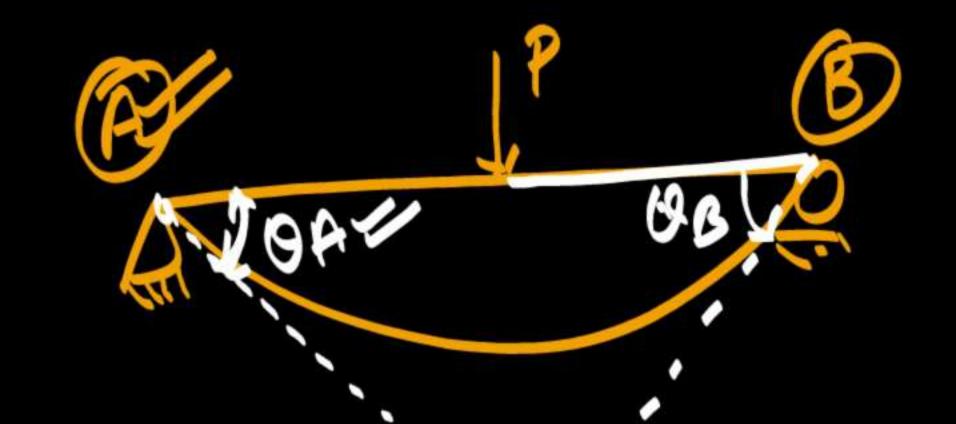


$$RA = \frac{5 \times 6}{8} + \frac{4 \times 3}{8} + \frac{3 \times 2}{8}$$

$$RA = \frac{5 \times 6}{8} + \frac{4 \times 3}{8} + \frac{3 \times 2}{8}$$

B: 0.4

Q:) Slope in the beam is defined as (Jharkhand SSC JE 2016)





A. Angle that the tangent to the elastic curve makes

with the unbent beam axis

B: Angle that the perpendicular to the elastic curve makes with the unbent beam axis

C: Angle that the tangent to the elastic curve makes with the perpendicular beam axis

D: Angle that the perpendicular of the beam axis makes with the elastic curve of the beam

Q:) A homogeneous prismatic simply supported beam of length L, width B and depth D is subjected to a vertical point load P. The load can be placed anywhere along the span of the beam. The very maximum flexural stress developed in the beam is

(HPSSSB JE 31 April 2017)

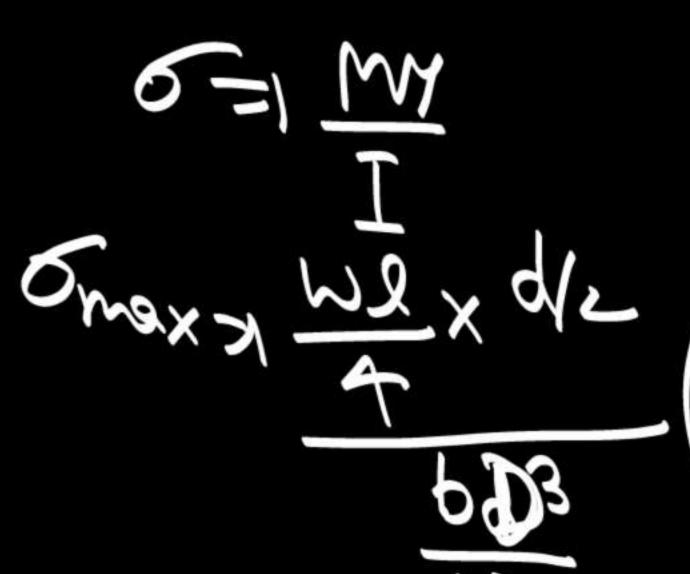
A/3PL/2BD²

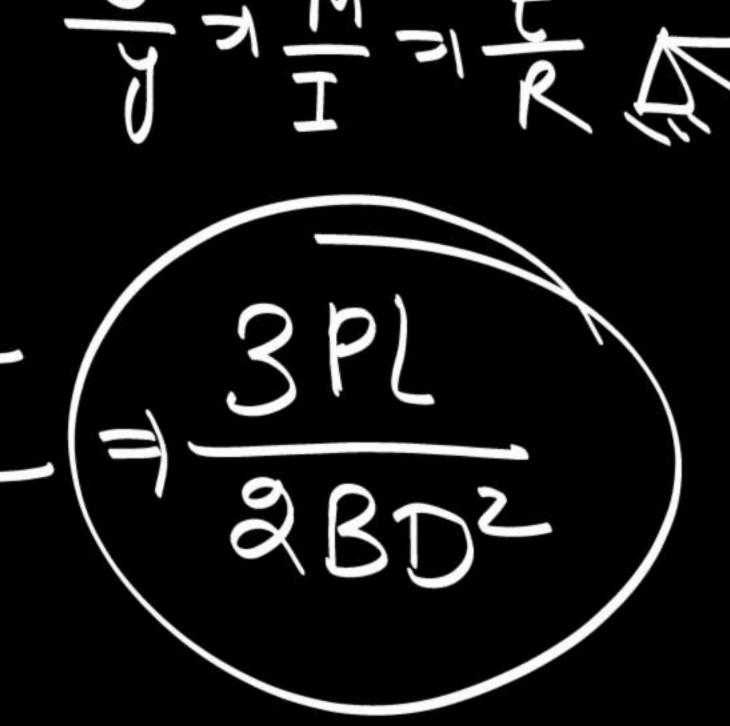
B: 3PL/4BD²

C: PL/2BD²

D: 2PL/BD²

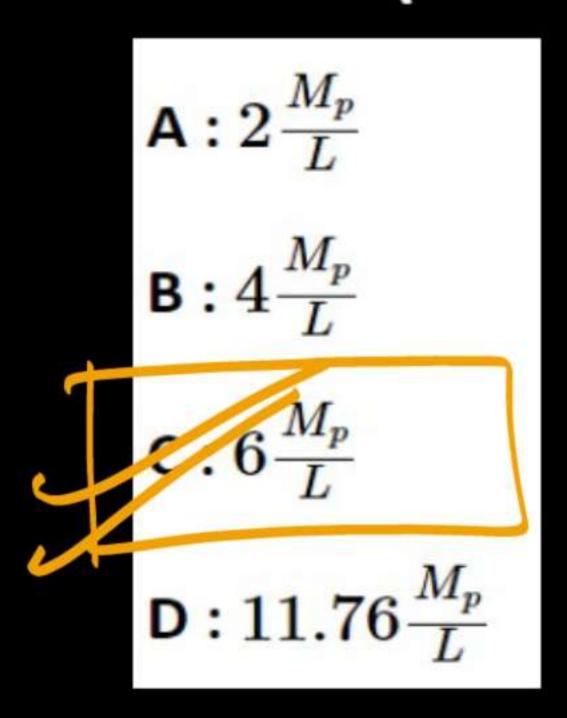




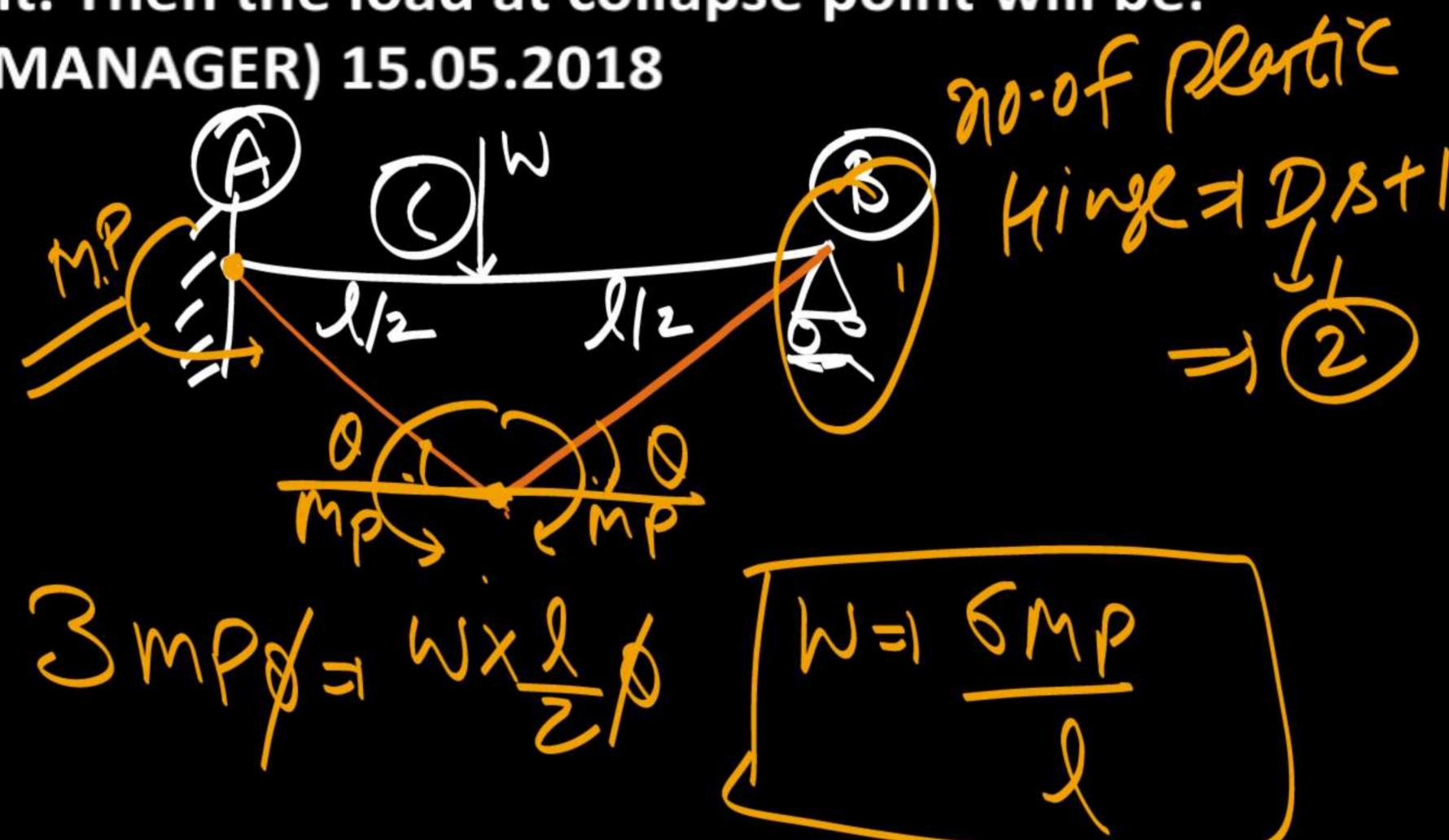


Q:) A propped cantilever beam of span L and constant plastic moment capacity M_p carries a concentrated load at the midpoint. Then the load at collapse point will be:

LMRCL (ASST. MANAGER) 15.05.2018



Comes



Q:) Find the moment of inertia of a rectangular hollow section about its centroid X-axis, if the external dimensions its centroid X-axis, if the external dimensions are 80 mm deep and 30 mm wide and internal dimensions are 50 mm deep and 20 mm wide.

(UPRVUNL JE 2019)

4.1071667 mm⁴

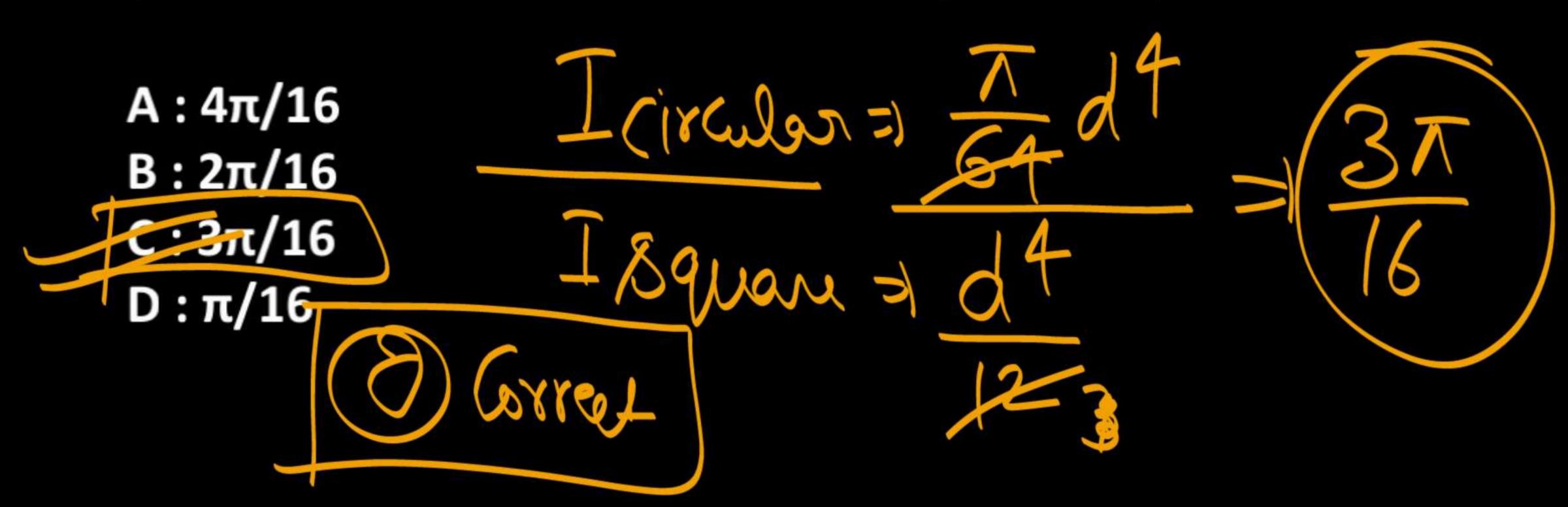
B: 214334 mm⁴

C: 535834 mm⁴

D: 128667 mm⁴

$$I_{13} = \frac{30 \times 80^{3}}{12} = \frac{20 \times 50^{3}}{12} = \frac{107/667}{107/667}$$

Q:) The ratio of moment of inertia of a circular plate and that of a square plate for equal depth is (SSB Himachal Pradesh 18.11.2018 (ESE 1995)



Q:) An axially loaded bar is subjected to a normal stress

of 173 MPa. The shear stress in the bar is:

(NBCC JE 2017)

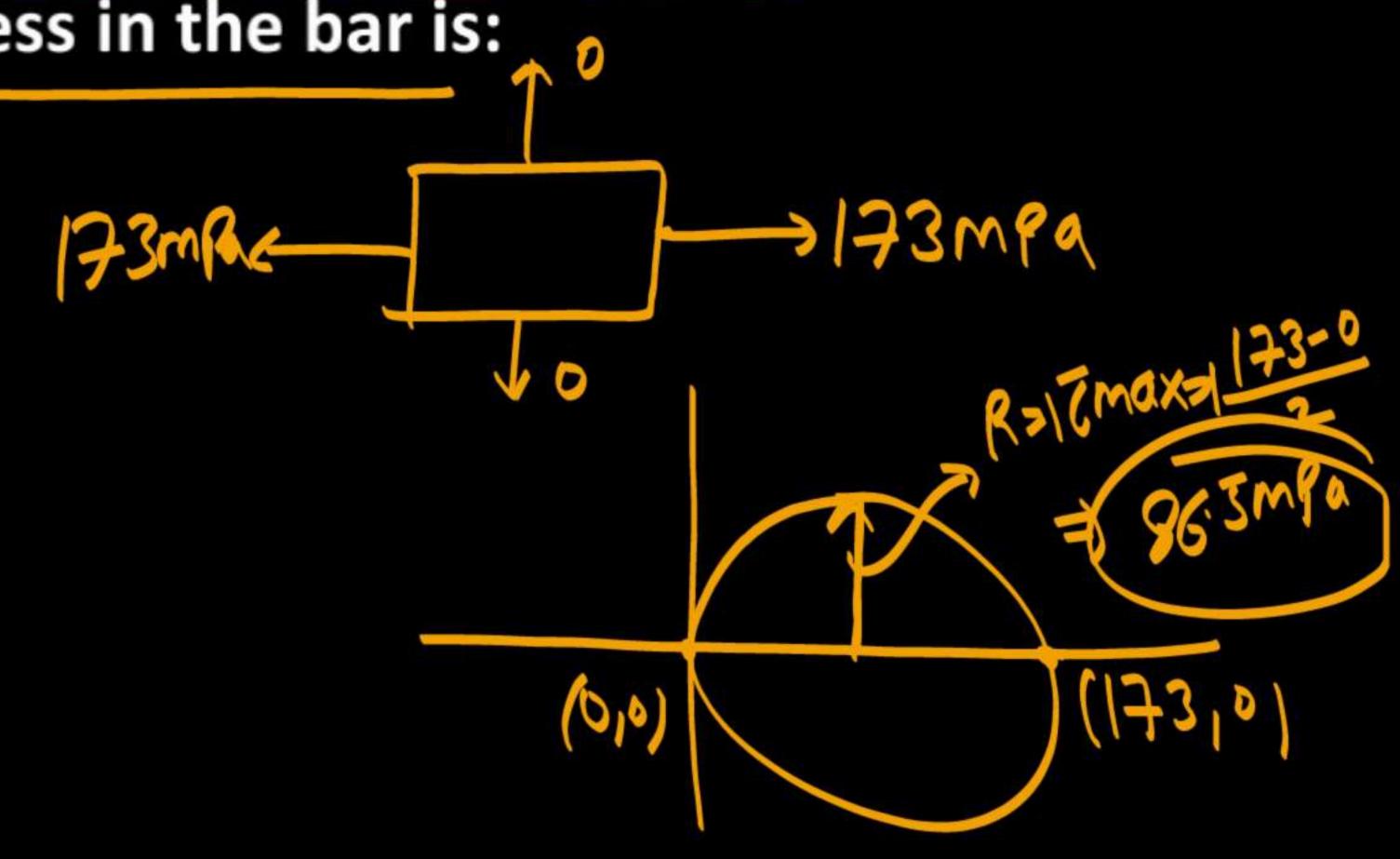
A: 75 MPa

B: 86.5 MPa

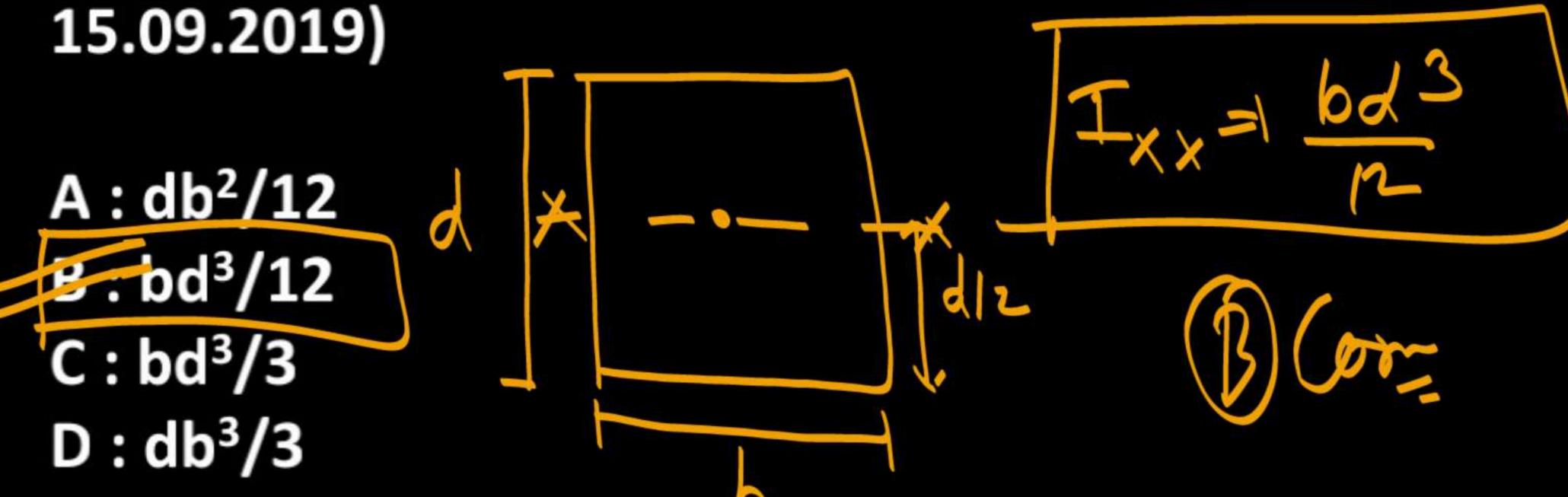
C: 100 MPa

D: 122.3 MPa





Q:) An engineer intends to design a cantilever beam of 2 m length. He selects a hellow square cross section with eternal sides as 60 mm and internal side $I = 6 \times$ 10⁵ mm⁴. If the section is made up of material having safe bending stress of 100 N/sq.mm, what will be the safe concentrated load (N) at the end? (DDA JE 24.04.2018, 12:30-2:30 pm) B: 1000 A: 1500 C: 2000 D:500 MMGX =1 WX 2000Hm Q:) A rectangle surface is having area b × d, if the centre of gravity from base is at d/2 the value of moment of inertia about its centroidal axis will be: (LMRC J.E. 13.05.2018 (Shift-I) BECIL NMRC J.E. Civil



Q:) A beam has square cross section of side 'a' the ratio of section modulus, when the side is horizontal, to the section modulus when it is rotated by 45° is

Squan Beckion Mox (M.P. Sub Engg. 2 sep 2019 2.00 pm) A:av2B : √2 a $C: \sqrt{2}/2$

Q:) The ____ of a body is that point through which the resultant of the system of parallel forces formed by weights of all the particles of the body passes for all the position of the body: (M.P. sub Engineer 2016)

A: Elongation

B: Breaking point

C: Yield point

D: Centre of gravity



Q:) Which among the following is/are the correct assumptions in the theory of simple bending? =) (DFCCIL 17-04-2016)

- 1. The loads act perpendicular to the beam axis.
 - 2. The beam bends to a circular arc.
 - 3. The beam is initially straight of constant cross-section

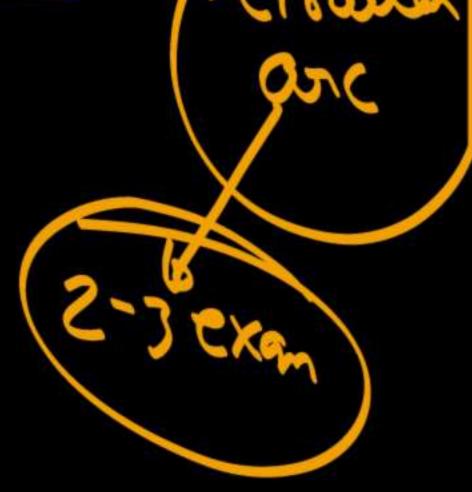
A: A and B

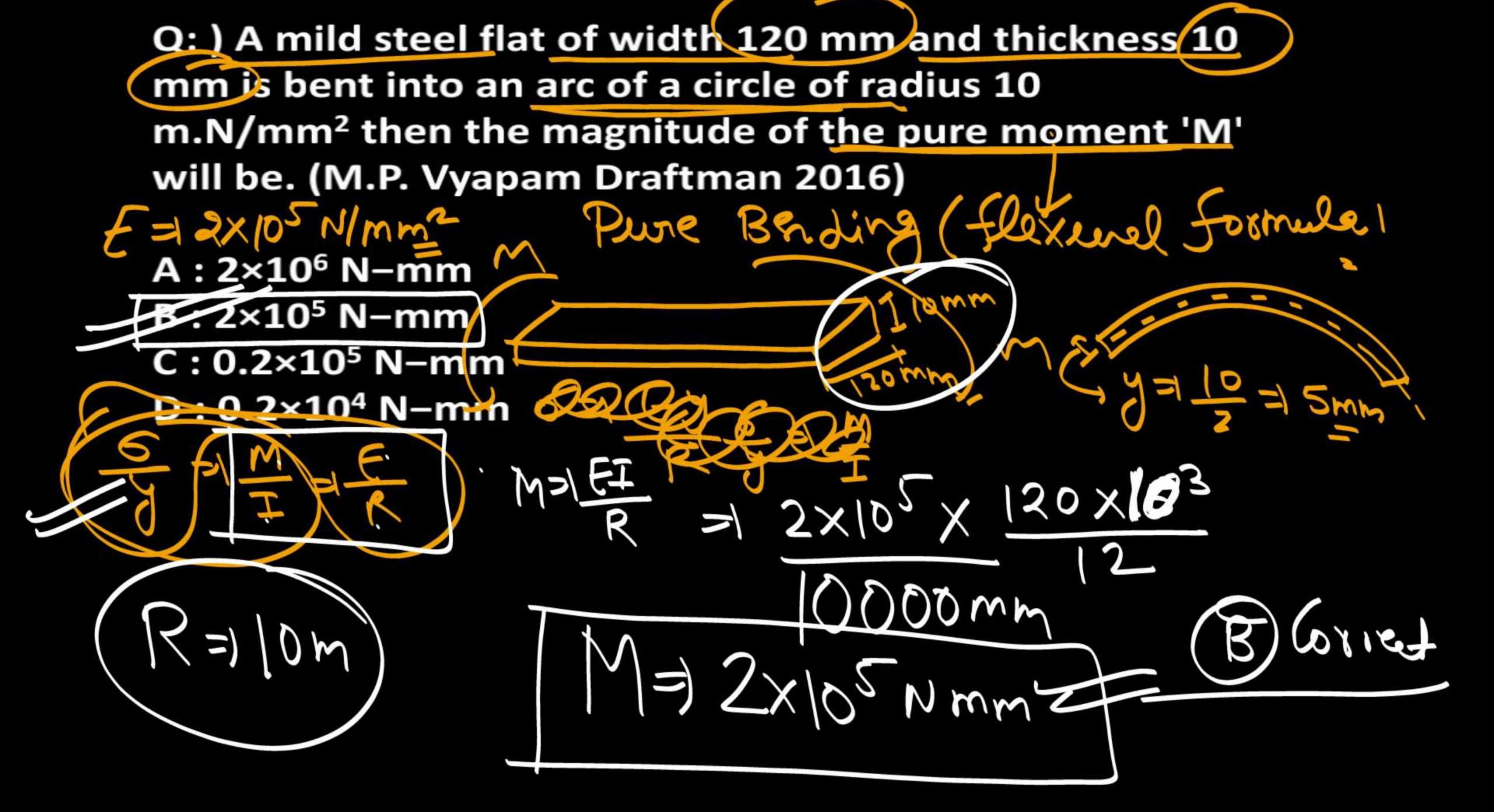
B: Only A

C: A, B and C

D: Only B

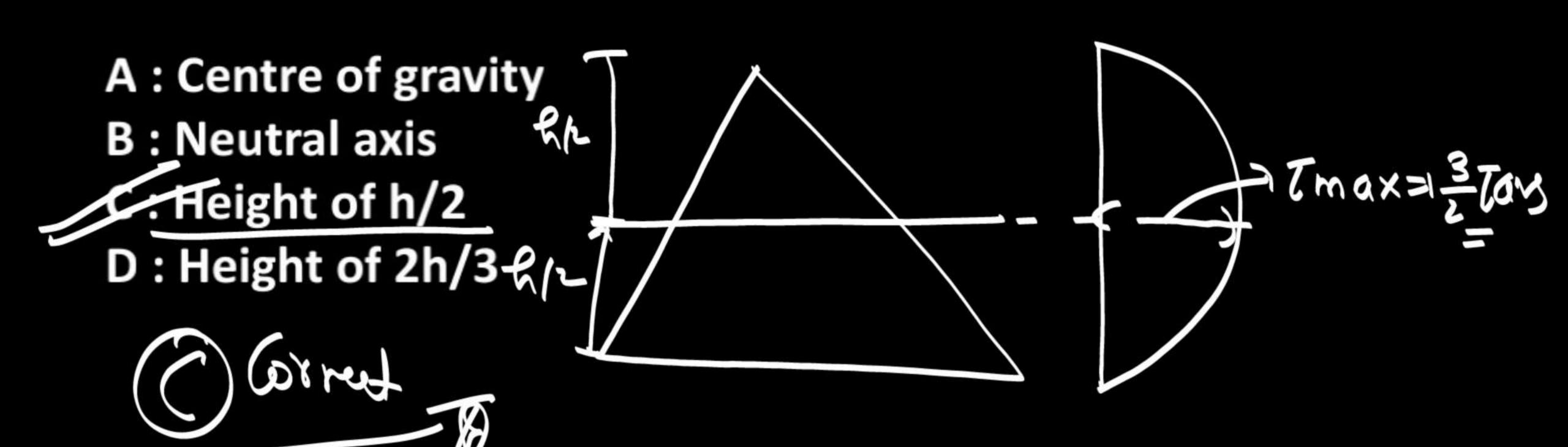






Q:) In the case of a triangular section, the shear stress is maximum at the: (DFCCIL Civil JE 10-11-2018)

. .



Q:) Match List-I with List-II SSB Himauhal Pradun 2013

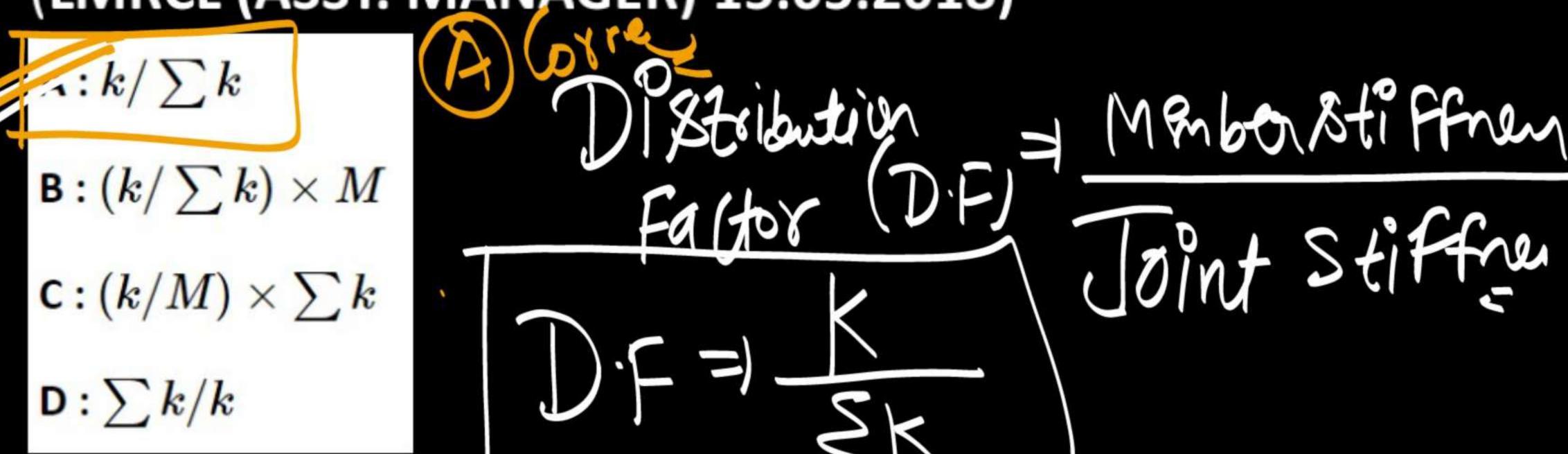
List-I	List-II
P. Section modulus	1. Tension
Q. Principal plane	2. Slope
R. Fixed end	3. Shear stress
S. Middle third rule	. Strength of section

C:
$$P - 4$$
, $Q - 1$, $R - 2$, $S - 3$



Q:) The rectangular beam 'A' has length L, width b and depth d. Another beam 'B' has the same length and width but depth is double that of 'A'. The elastic strength of beam B will be:

strength of beam B will be: (NBCC JE 2018 (Morning Shift) A: Same B: Double Four times D: Six times ZAN DOZ ZANAZB Q:) In moment distribution method, the distribution factor at any point can be calculated by, using which of following expression; where, k is stiffness of the member, M is moment in member due to loads. (LMRCL (ASST. MANAGER) 15.05.2018)



Q:) Who introduced moment area method? (Hariyana SSC JE Shift I 09-04-2018)

: Charles E. Greene

B: Clapeyron

C: Stanley P. Rockwell

D: Joe N. Greene



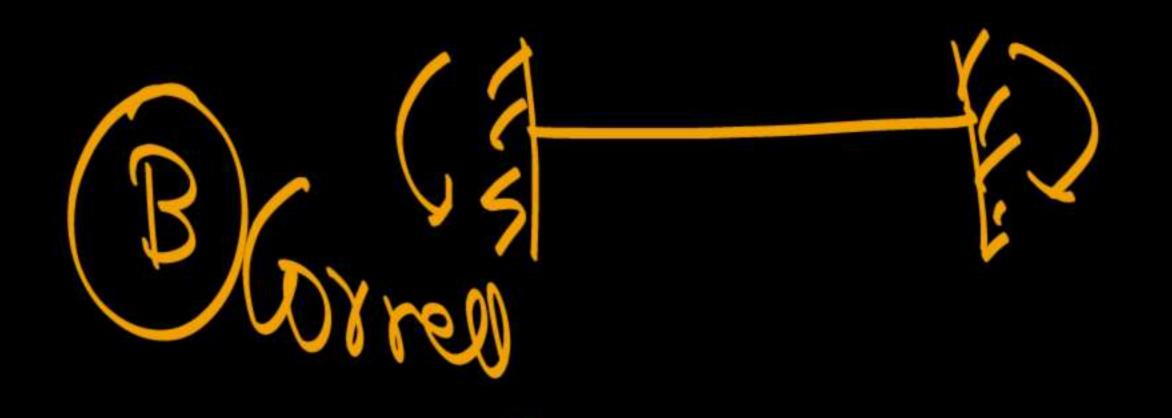
Q:) The moment area method is not suitable for which type of beams? (Hariyana SSC JE shift-I (11.04.2018)

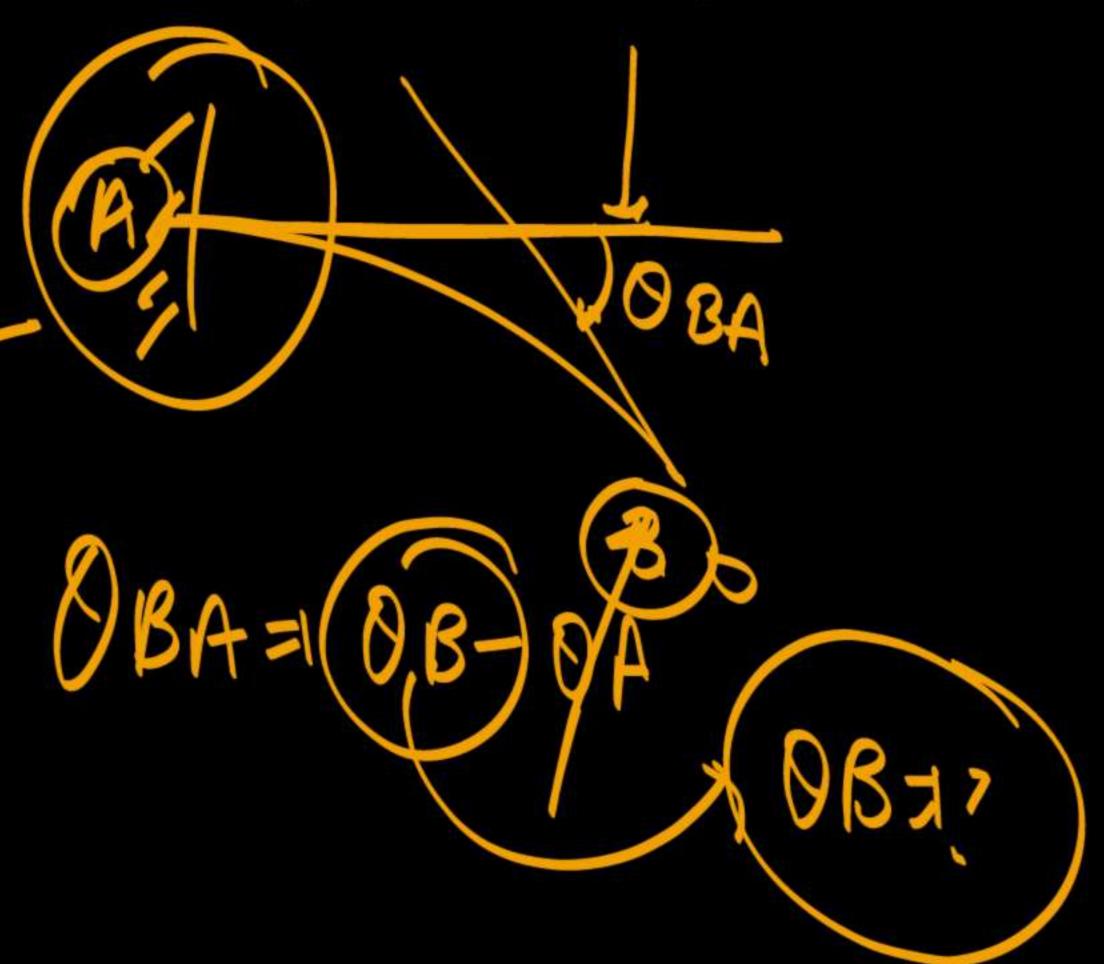
A: Cantilever beams

E: Continuous beams

C. Simply supported beams

D: Beams fixed at both ends





Q:) What does the Mohr's circle represent? (Hariyana SSC JE Shift-I (10.04.2018)

A: Strain on planes

B: Stresses on planes

C: Shear on planes

D: Friction on planes



Q:) Which of the following concepts is the basic principle of structural design? (RRB JE CBT-II 29-08-2019 (evening)

A: Wqually strong column-beam

B: Partial weak column-beam

Strong-column weak-beam

D: Weak-column strong-beam



Q:) The Euler for a column is 1000 kN and the crushing load is 1500 kN. The Rankine load for this is equal to (NBCC JE 2017, (ESE 2010)

600 kN

B: 1000 KN

C: 1500 kN

D: 2500 kN

(A) Correct

Q:) The euler's formula for column is valid for: (FCI 2016)

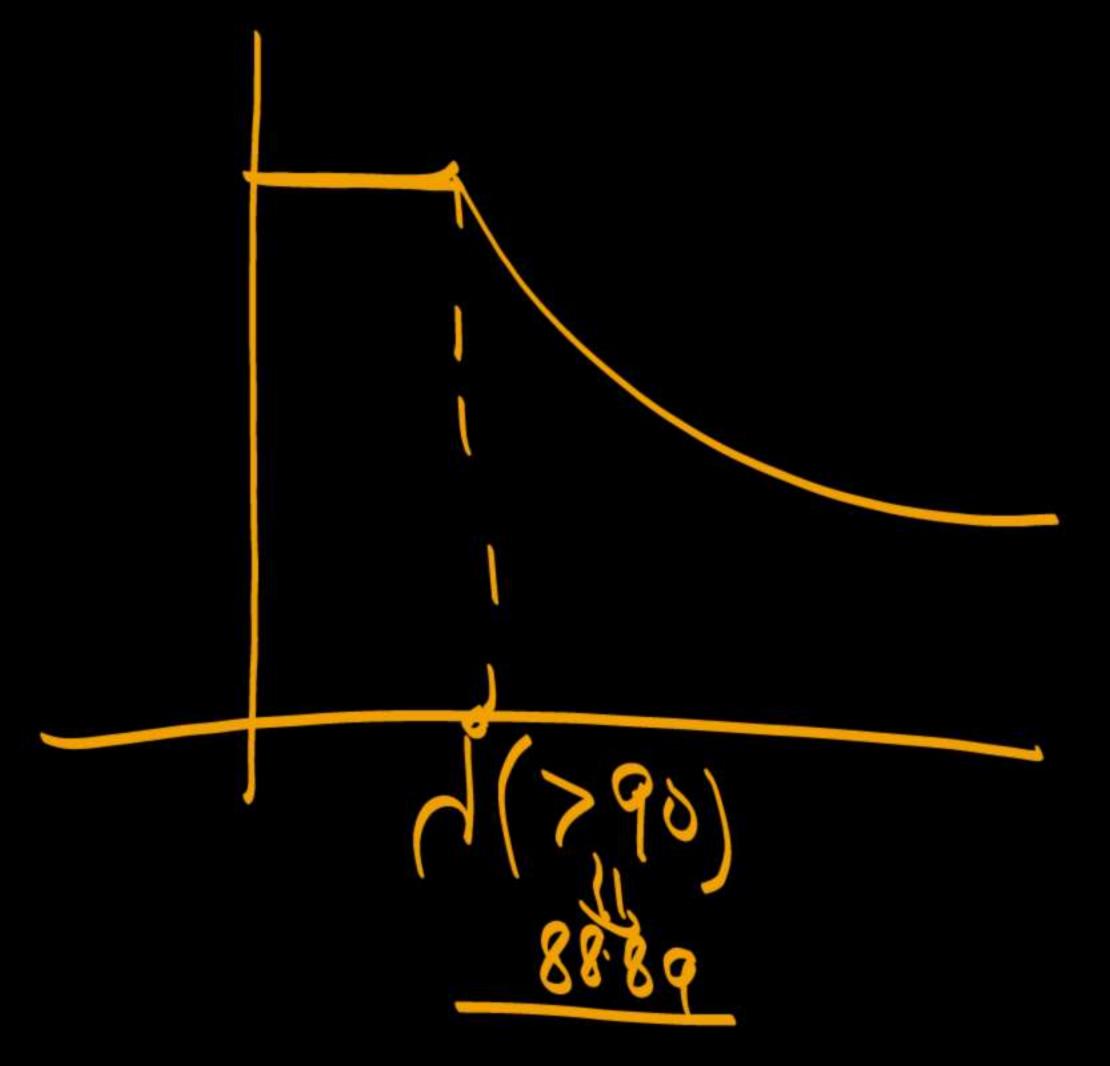
A: Zero slenderness ratio

B: Small slenderness ratio

Large slenderness ratio

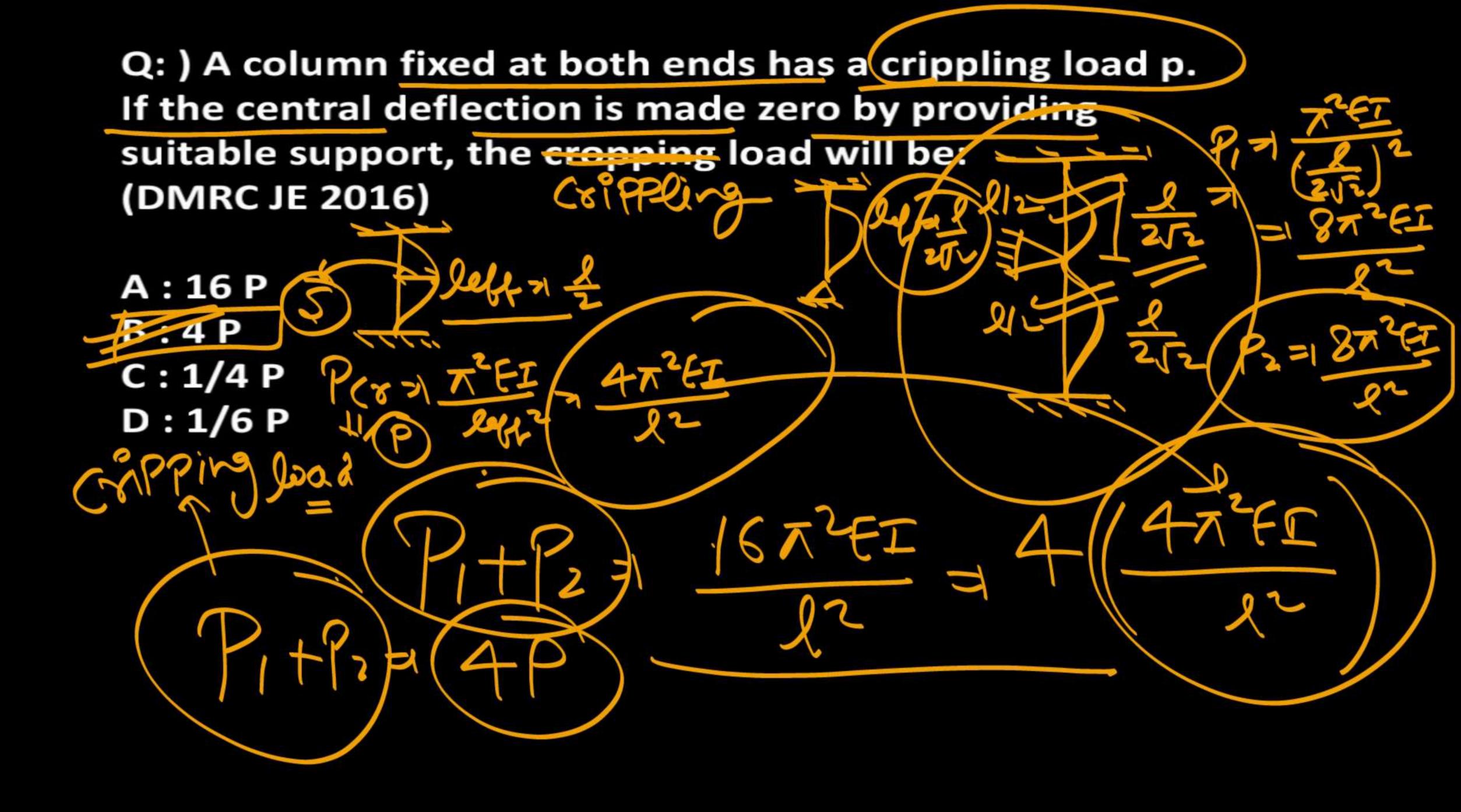
D: None of these





Q:) The slenderness ratio of a vertical column of square cross section 2.5 cm sides and 300 cm length is-

(UPSSSC JE 31-07-2016) A:200 300 X 21/3 B: 240 C:360416 ar 12 (1) Corne



Q:) Ability of a material to regain its original shape upon the remove; of the applied loads is termed as: (BSPHCL JE Civil 29.01.2019 (Batch-2)

A: Torsion

B: Shear stress

C: Moment of Inertia

D: Resilience



