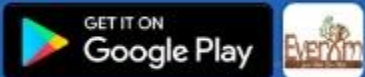




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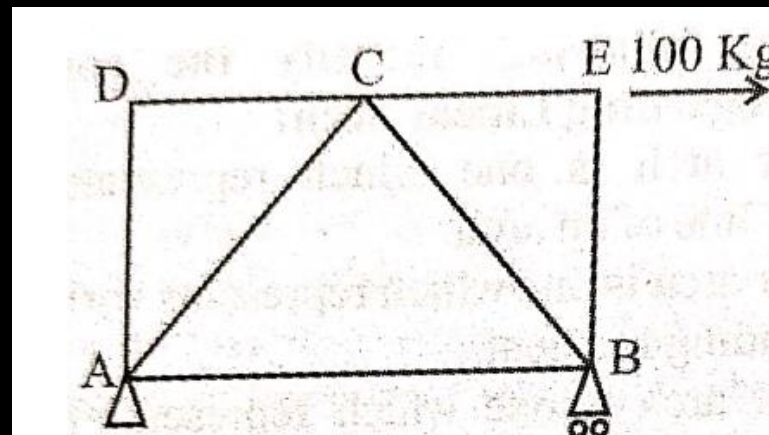
Q : 1) Identify the members with zero member force in the following truss:

A : AD, DC and EB

B : AD, DC and CE

C : AD, AB and AC

D : None of the above



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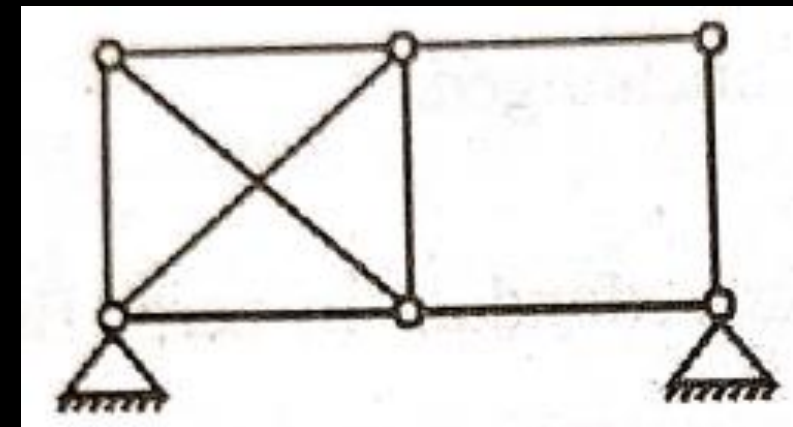
Q : 2) In the truss shown below which statement is correct?

A : Externally unstable

B : Internally unstable

C : Statically determinate structure

D : Statically indeterminate structure



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Daily Class – 7:00 PM

Q : 3) Castigliano's first theorem is applicable

A : For statically determinate structures only

B : When the system behaves elastically

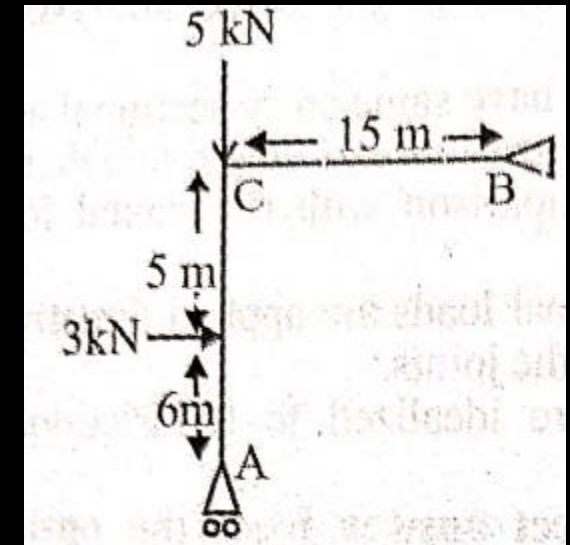
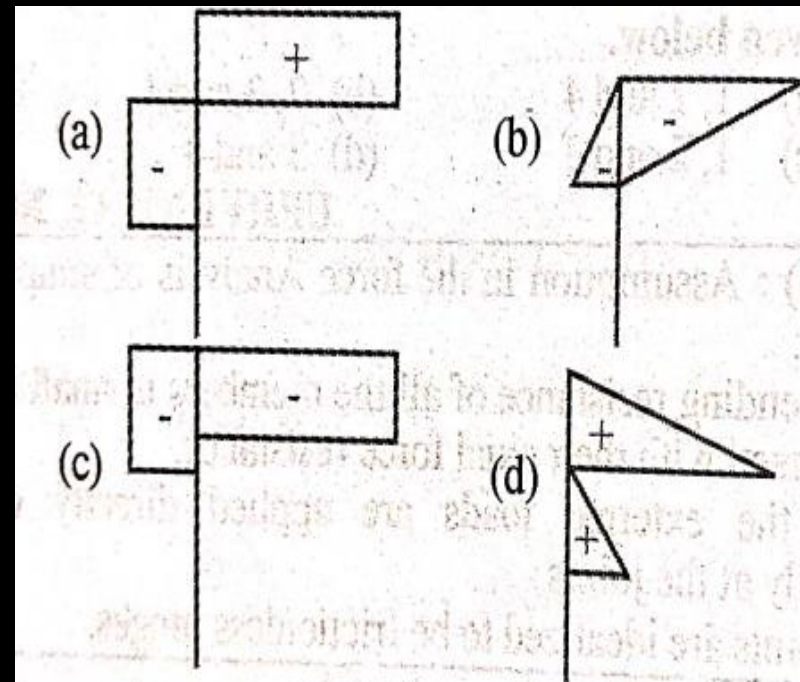
C : Only when principle of superposition is valid

D : For statically indeterminate structures only

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Daily Class – 7:00 PM

Q : 4) Select the shear force diagram for the following beam:



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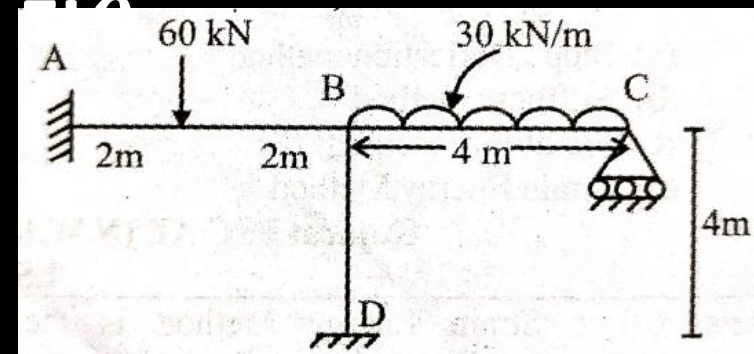
Q : 5) The slope deflection equation at B of member BC for the frame shown in the figure is _____. (Take EI = constant)

A : $M_{BC} = 60 + EI\theta_B$

B : $M_{BC} = -40 + 0.5EI\theta_B + EI\theta_C$

C : $M_{BC} = -40 + EI\theta_B + 0.5EI\theta_C$

D : $M_{BC} = -60 + EI\theta_B$



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Q : 6) The number of plastic hinges which will cause the overall total collapse of a structure is:

A : One more than the order of static indeterminacy

B : Equal to order of static indeterminacy

C : One less than the order of static indeterminacy

D : Not determinable

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Q : 7) The nominal cover requirements for meeting the durability requirement of mild, very severe, severe, moderate, extreme types of exposure are respectively in mm

A : 20,30, 45, 50, 75

B : 20, 45, 30, 50, 75

C : 20, 50, 45, 30, 75

D : 20, 75, 50, 30, 45

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Daily Class – 7:00 PM

Q : 8) The cover of longitudinal reinforcing bar in a beam subjected to sea spray should not be less than which one of the following?

A : 25 mm

B : 40 mm

C : 70 mm

D : 90 mm

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Daily Class – 7:00 PM

Q : 9) The workability of concrete required for the heavily reinforced section in slab, beam and column is:

A : Very low

B : Very high

C : Low

D : Medium

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Daily Class – 7:00 PM

Q : 10) Minimum period before striking soffit formwork to slabs:

A : 21 days

B : 7 days

C : 3 days

D : 1 day

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Daily Class – 7:00 PM

Q : 11) In the fourth amendment may 2013 of IS 456-2000, M60 grade has been shifted to

A : Standard concrete from high strength concrete

B : High strength concrete from high strength standard concrete

C : Standard concrete from an ordinary concrete

D : Ordinary concrete from a standard concrete

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Daily Class – 7:00 PM

Q : 12) The development length of each bar of three bars bundled together is increased by:

A : 0.1

B : 0.2

C : 0.33

D : 0.5

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Daily Class – 7:00 PM

Q : 13) What is the maximum permissible acid soluble chloride content (kg/cum) for reinforced concrete?

A : 1.5

B : 0.6

C : 0.4

D : 3

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Daily Class – 7:00 PM

Q : 14) AS per IS 456 : 2000 the limit of suspended matter in water to be used for construction is

A : 200 mg/l

B : 300 mg/l

C : 2000 mg/l

D : 3000 mg/l

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Daily Class – 7:00 PM

Q : 15) In order to ensure the lateral stability of simply supported beams, the beam shall be so proportioned that the clear distance between the lateral restraints does not exceed Whichever is less.

A : $60 b$ or $\frac{250 b^2}{d}$

B : $60 b$ or $\frac{100 b^2}{d}$

C : $25 b$ or $\frac{250 b^2}{d}$

D : $25 b$ or $\frac{250 b^2}{d}$

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Daily Class – 7:00 PM

Q : 16) A continuous beam shall be deemed to be deep beam when, the ratio of effective span to overall depth is less than-

A : 2.0

B : 2.5

C : 1.5

D : 1.0

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Daily Class – 7:00 PM

Q : 17) On which of the following, the support for flat slab is provide?

A : Beams built monolithically above walls

B : Columns built monolithically with slab

C : beams

D : walls

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Daily Class – 7:00 PM

Q : 18) In the design of two way slab restrained at all edges torsional reinforcement required is

A : 0.75 times the area of steel provided at mid span in the same direction

B : 0.375 times the area of steel provided at mid span in the same direction

C : 0.375 times the area of steel provided in the shorter span

D : None of these

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Daily Class – 7:00 PM

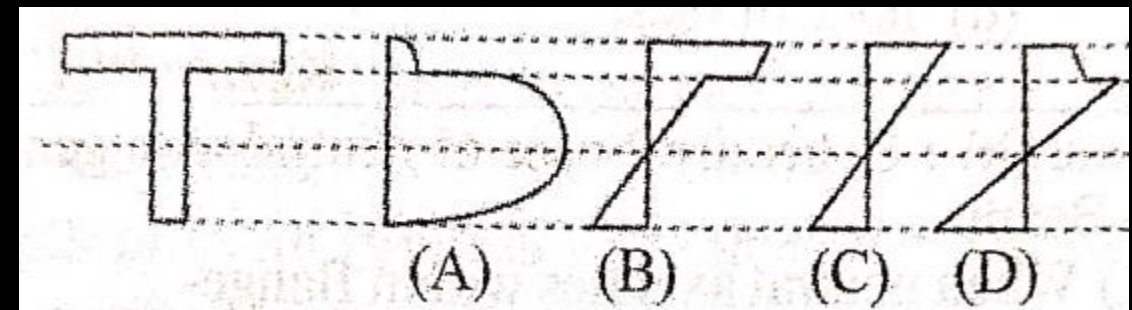
Q : 19) A cast iron beam is a T-section as shown. It is supported and carrying a uniformly distributed load. Which of the following is the correct bending stress distribution diagram if the element is stressed perfectly within plastic limit?

A : A

B : B

C : C

D : D



Q : 20) Effective flange width of a continuous T-beam is-

A : $b_f = \frac{l_o}{6} + b_w + 6 D_f$

B : $b_f = \frac{l_o}{12} + b_w + 3 D_f$

C : $b_f = \frac{l_o}{\frac{l_o}{b} + 4} + b_w$

D : $b_f = \frac{0.5 l_o}{\frac{l_o}{b} + 4} + b_w$

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Daily Class – 7:00 PM

Q : 21) The effective depth of a T beam for heavy loads is taken as

A : $\frac{1}{10}$ of the span

B : $\frac{1}{12}$ of the span

C : $\frac{1}{15}$ of the span

D : $\frac{1}{18}$ of the span

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Daily Class – 7:00 PM

Q : 22) Calculate the pitch of lateral ties for a column of 300 square with 20 mm dia longitudinal bar and 8 mm ϕ lateral tie.

A : 384 mm

B : 320 mm

C : 300 mm

D : 280 mm

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Daily Class – 7:00 PM

Q : 23) A 300×300 mm RC column is reinforced with eight bars. Four bars are of $12\text{ mm } \phi$ and four of $10\text{ mm } \phi$. The diameter of lateral ties is 6 mm . The pitch of lateral ties shall be kept as

A : 300 mm

B : 192 mm

C : 160 mm

D : 288 mm

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Daily Class – 7:00 PM

Q : 24) Specify the percentage increase in load carrying capacity (Specified in IS 456) for a column having longitudinal reinforcement tied with spirals as compared to the allowable load for it with lateral ties

A : 10%

B : 20%

C : 25%

D : 5%

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Daily Class – 7:00 PM

Q : 25) Match the minimum number of longitudinal steel bars required in columns as per cross section of column-

A. Rectangular column	1. 4
B. Circular column	2. 5
C. Octagonal column	3. 6
	4. 8

A : (i), (ii), (iii)

B : (i), (iii), (iv)

C : (iv), (iii), (i)

D : (iii), (i), (iv)

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Daily Class – 7:00 PM

Q : 26) In an isolated reinforced concrete footing of effective depth d , the stress in punching shear is checked:

A : At the centre of the column

B : At the face of the column

C : At a distance $d/2$ away from the face of the column

D : AT a distance $d/2$ away from the centre of the column

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Daily Class – 7:00 PM

Q : 27) Bolts are most suitable to carry

A : Shear force

B : Bending moment

C : Axial tension

D : Shear force and bending moment

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Daily Class – 7:00 PM

Q : 28) The minimum pitch of the rivet shall not be less than

A : d

B : $1.5 d$

C : $2.0 d$

D : $2.5 d$

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Daily Class – 7:00 PM

Q : 29) Which of the options given below are true about how the commonly used structural steels are made?

- 1. Very low carbon steels, $< 0.1\%$**
- 2. Low carbon steel 0.1 to 0.25%**
- 3. Medium carbon steel 0.25 to 0.6%**
- 4. High carbon steel 0.6 to 1.1%**

A : 1 is true

B : 1 and 2 are true

C : 1, 2 and 3 are true

D : All are true

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Daily Class – 7:00 PM

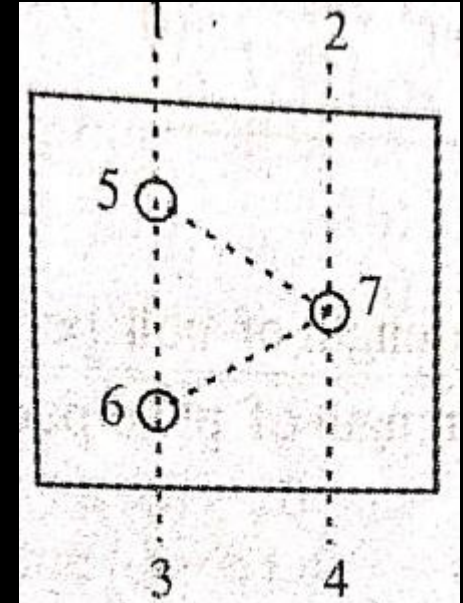
Q : 30) Which section to be considered in the design for the net area of flat ?

A : 1 – 5 – 6 – 3

B : 2 – 7 – 4

C : 1 – 5 – 7 – 4

D : 1 – 5 – 7 – 6 – 3



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Daily Class – 7:00 PM

Q : 31) In case of staggered pitch, pitch may be _____ of values specified for not staggered pitch.

A : Increased by 20%

B : Increased by 50%

C : Decreased by 20%

D : Decreased by 50%

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Daily Class – 7:00 PM

Q : 32) A steel section is subjected to a combination of shear and bending actions. The applied shear force is V and the shear capacity of the section is V_s . For such a section, high shear force as per IS : 800-2007 is defined as

A : $V > 0.45 V_s$

B : $V > 0.60 V_s$

C : $V > 0.75 V_s$

D : $V > 0.90 V_s$

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Daily Class – 7:00 PM

Q : 33) A standard fillet weld consists of isosceles triangle with which of the following angles?

A : 60 degrees

B : 45 degrees

C : 20 degrees

D : 75 degrees

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Daily Class – 7:00 PM

Q : 34) The effective length of fillet weld should not be less than-

A : Two times weld size

B : Four times weld size

C : Six times weld size

D : Weld size

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Daily Class – 7:00 PM

Q : 35) Effective throat size of a fillet is

A : A function of the angle between the fusion sides

B : Equal to the hypotenuse of the weld triangle

C : The perimeter of the weld divided by the size of the weld

D : 0.707 times the size of the weld

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Daily Class – 7:00 PM

Q : 36) Fillet weld is not recommended if the angle between fusion faces is

- 1. Less than 45°**
- 2. Greater than 120°**
- 3. Less than 60°**
- 4. Greater than 145°**

A : 1 and 2

B : 1 and 4

C : 2 and 3

D : 3 and 4

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Daily Class – 7:00 PM

Q : 37) Which one of the following statements is not correct with respect to the properties of cement?

A : Highly reactive Pozzolanas enhance the early age strength of the composite cement

B : Pozzolanic activity refines pore structure which decreases electrolytic resistance of concrete

C : The expansion due to alkali-silica reaction can be controlled by replacement of as high as 60% of OPC with high-calcium Pozzolana

D : Such high amounts of replacement cements result in higher accelerated carbonation depths compared to pure use of OPC only

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Daily Class – 7:00 PM

Q : 38) As per Indian standard code 1077, the burnt clay building bricks having compressive strength less than _____ N/mm² are known as common burnt clay bricks

A : 3.5

B : 12.5

C : 30

D : 40

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Daily Class – 7:00 PM

Q : 39) After 24 hours immersion in cold water, water absorption by weight shall not exceed ___ percent of the dry weight of the brick.

A : 40

B : 20

C : 25

D : 30

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Daily Class – 7:00 PM

Q : 40) Maximum slenderness ratio as per Indian standard for an unreinforced load bearing wall (using Portland Cement or Portland Pozzolna Cement mortar) is

A : 13

B : 20

C : 27

D : 35

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Daily Class – 7:00 PM

Q : 41) The test conducted for the calculation of basic compressive stress of masonry is:

A : Vibration test

B : Prism test

C : CBR test

D : Slump cone test

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Daily Class – 7:00 PM

Q : 42) Efflorescence test is conducted for burnt clay bricks to find out the

A : Presence of alkaline substance

B : Hardness

C : Soundness

D : Presence of cracks or holes

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Daily Class – 7:00 PM

Q : 43) The apparatus used for determining the Soundness of cement is

A : Slump cone

B : Le Chatelier apparatus

C : Vicat's needle

D : UTM

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Daily Class – 7:00 PM

Q : 44) Cement used for railway sleepers is designated as

A : 40-S

B : 53-S

C : 46-S

D : 48-S

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Daily Class – 7:00 PM

Q : 45) The main constituent of cement which is responsible for initial setting of cement is

A : Dicalcium silicate

B : Tricalcium silicate

C : Tricalcium aluminate

D : None of the given answers

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Daily Class – 7:00 PM

Q : 46) For testing compressive strength of hydraulic cement other than masonry cement as per IS 4031 - Part 6, the size of cube used is

A : 150 mm

B : 100 mm

C : 70.6 mm

D : 50 mm

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Daily Class – 7:00 PM

Q : 47) Plywood has the advantage of

A : Greater tensile strength in longer direction

B : Greatest-tensile strength in shorter direction

C : Same tensile strength in both directions

D : None of the given answers

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Daily Class – 7:00 PM

Q : 48) A queen closer is

A : Full brick

B : Longitudinally $1/2$ brick

C : $3/4$ brick

D : $1/2$ brick

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Daily Class – 7:00 PM

Q : 49) The artificial seasoning method that causes timber to become brittle and easy to break is

A : Boiling

B : Chemical seasoning

C : Electrical seasoning

D : Kiln seasoning

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Daily Class – 7:00 PM

**Q : 50) The age of tree can be known by
examine**

A : Cambium layer

B : Annular rings

C : Medullary rays

D : Heart wood

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