



CIVIL ENGINEERING

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Q : 1) The compressive strength of heavy duty bricks should be more than –

A : 40 N/mm²

B : 20 N/mm²

C : 5 N/mm²

D : 3.5 N/mm²

Q : 2) Pallet board is used –

A : To make frog in the brick

B : To mount the mould

C : For table moulding of brick

D : None of the above

Q : 3) Tolerance limits for dimensions of bricks in length, width and height, respectively, for a sample of 20 bricks taken together as per IS code are:

A : 2000 mm, 90 mm, 90 mm

B : 80 mm, 40 mm, 40 mm

C : 100 mm, 95 mm, 95 mm

D : 50 mm, 20 mm, 20 mm

Q : 4) As per IS 712 lime is classified into how much categories?

A : 4

B : 6

C : 9

D : 3

Q : 5) The initial setting time for class 'A' lime is minimum

A : 15 minutes

B : 30 minutes

C : 120 minutes

D : 600 minutes

Q : 6) For foundation on clayey soil, the maximum differential settlement is limited

A : 20 mm

B : 30 mm

C : 40 mm

D : 50 mm

Q : 7) Net ultimate bearing capacity of a soil is 25 t/m^2 and density 1.7 t/m^3 . The safe bearing capacity at 1 m below the ground surface taking a factor of safety 2.5 will be

A : 10 t/m^2

B : 25 t/m^2

C : 11.7 t/m^2

D : 62.5 t/m^2

Q : 8) Which of the following is not an assumption in Terzaghi's formulation of bearing capacity equation?

A : Plain strain condition exists

B : Base of the footing is smooth

C : The width of the base of the footing is less than or equal to the founding depth

D : Shear strength is governed by Mohr – Coulomb failure criteria

Q : 9) The minimum gross pressure intensity at the base of the foundation at which the soil fails in shear is called as :

A : Ultimate bearing capacity

B : Net safe bearing capacity

C : Allowable bearing capacity

D : Safe bearing capacity

Q : 10) In Terzaghi's bearing capacity analysis, the soil wedge immediately below the footing remains in state of-

A : Plastic equilibrium

B : Radial shear

C : Elastic equilibrium

D : Linear shear

Q : 11) Poisson ratio of steel in elastic range is:

A : 0.5

B : 0.4

C : 0.3

D : 0.2

Q : 12) In stress – strain curve of structural steel with high carbon content, which of the following zone is not prominent?

A : Elastic zone

B : Plastic zone

C : Yield zone

D : Strain hardening

Q : 13) In a stress-strain plot, the following points appear : a) Limit of proportionality, b) Elastic limit, c) Yield point, d) Ultimate strength strength point, e) Point of rupture. The correct sequence of occurrence of these points is

A : a-b-c-d-e

B : e-d-c-b-a

C : a-c-b-d-e

D : b-a-c-d-e

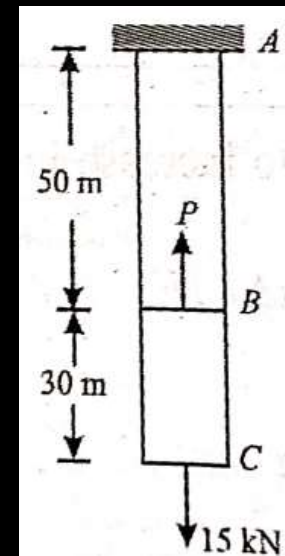
Q : 14) A steel bar ABC of uniform cross-section 100 mm^2 is suspended vertically and loaded as shown in the figure. If the lower end of bar C does not move when loads are applied (Neglect self-weight), then the value of force P is – ($E_s = 200 \text{ kN/mm}^2$)

A : 24 kN

B : 42 kN

C : 36 kN

D : 15 kN



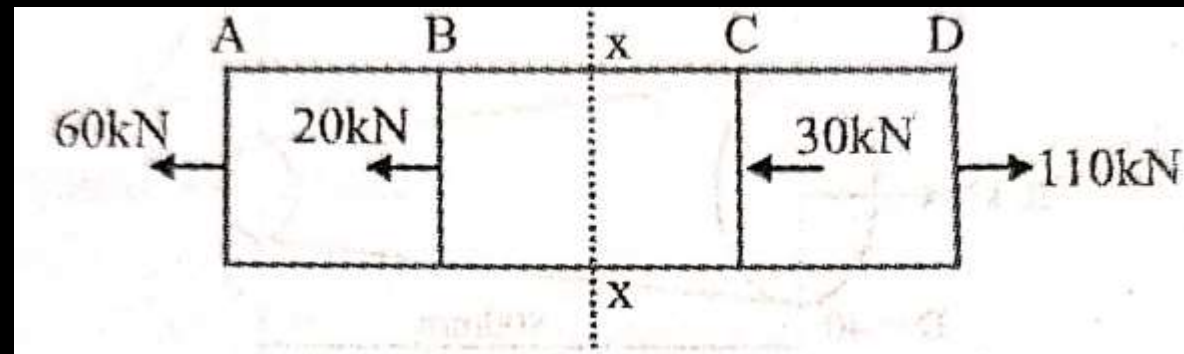
Q : 15) What is the stress at the section x-x for the bar ABCD with uniform cross-section 1000 mm^2 ?

A : 20 N/mm^2 (Tensile)

B : 30 N/mm^2 (Compressive)

C : 80 N/mm^2 (tensile)

D : 50 N/mm^2 (Compressive)



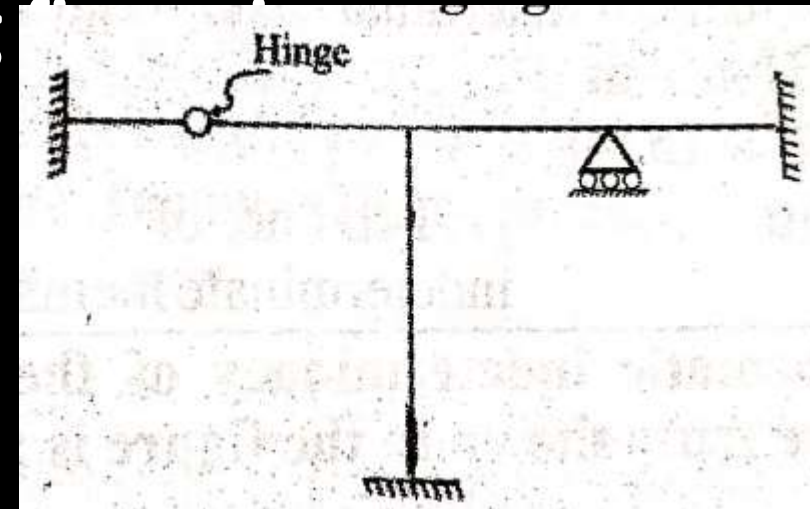
Q : 16) The degree of static indeterminacy of the frame shown in the following

A : 2

B : 4

C : 6

D : 8



Q : 17) A three hinged arch of span 'L' and central rise 'h' is subjected to a UDL of kN/m throughout its span the bending moment at point L/4 from left support will be :

A : $\frac{wL^2}{4H}$

B : $\frac{3wL^2}{32}$

C : $\frac{wL^2}{8H}$

D : Zero

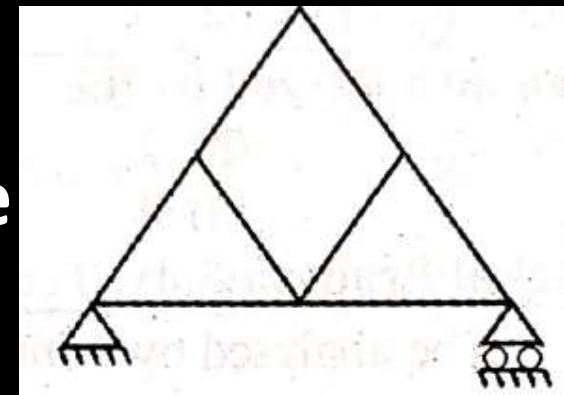
Q : 18) Choose the correct combination of the stability and indeterminacy of the truss given

A : Statically indeterminate and stable

B : Statically determinate and stable

C : Unstable

D : Statically determinate



Q : 19) Hudson's formula gives the dead weight of a truss bridge as a function of

A : Bottom chord area

B : Top chord area

C : Middle chord area

D : Effective span of bridge

Q : 20) A method that cannot not be used to determine the focus in the members of a frame is :

A : Moment distribution method

B : Method of sections

C : Graphical method

D : Method of joints

Q : 21) The reciprocal theorem of maxwell is valid for structure

A : Having linear force-displacement relation

B : That are elastic

C : That are plastic

D : Irrespective of their type

Q : 22) As per IS 456 : 2000, minimum period before striking formwork for vertical surface of the columns

A : 1 days

B : 7 days

C : 14 days

D : 28 days

Q : 23) Consider the following strength of concrete

- 1. Cube strength**
- 2. Cylinder strength**
- 3. Split tensile strength**
- 4. Modulus of rupture**

The correct sequence in increasing order of these strength

A : 3-4-1-2

B : 4-3-1-2

C : 3-4-2-1

D : 4-3-2-1

Q : 24) 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

Q : 25) The recommended slump concrete is :

A : 1-2 inches

B : 2-4 inches

C : 3-4 inches

D : 4-6 inches

Q : 26) The recommended slump of concrete for hand placed pavements is

A : 2-4 inches

B : 3-4 inches

C : 4-6 inches

D : 1-3 inches

Q : 27) Which of the following is not a component of an expansion joint used in jointed plain cement concrete?

A : Dowel bars

B : Joint filler

C : Joint sealer

D : Tie bar

Q : 28) Rolled steel tubes are referred by their

A : Outer diameter

B : Inner diameter

C : Average diameter

D : Outer radius

Q : 29) Yielding in structural members with partial safety factor as 1.1 is governed by :

A : Net area of connected lug angle

B : Sectional area

C : Effective area

D : Gross area

Q : 30) For field rivets, the permissible stresses are reduced by what percentage?

A : 10%

B : 15%

C : 25%

D : $33\frac{1}{3}\%$

Q : 31) The maximum shear stress of steel member flexure shall not exceed :

A : $0.4 f_y$

B : $0.66 f_y$

C : $0.5 f_y$

D : $0.45 f_y$

Q : 32) What is the efficiency of joint when strength of bolt per pitch length is 60 kN and strength of plate per pitch length is 150 kN?

A : 30 percent

B : 40 percent

C : 35 percent

D : 25 percent

Q : 33) Two distance between the centre of adjacent rivets in the same row is called

A : Pitch

B : Lap

C : Gauge

D : Staggered lap

Q : 34) 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%

Q : 35) An external corner in brick masonry is called

A : Quoin

B : Jamb

C : Squint

D : Closer

Q : 36) A bull nose brick is not used for

A : Rounding off sharp corners

B : Pillars

C : Decoration purpose

D : Arches

Q : 37) As per IS, for a load bearing brick masonry wall built in cement mortar, the maximum permissible slenderness ratio is :

A : 17

B : 27

C : 38

D : 20

Q : 38) For constructing 100 mm thick partition wall, it is preferable to use

A : Stretcher bond

B : Header bond

C : Flemish bond

D : Garden bond

Q : 39) _____ are provided as a protective coatings to wall at its top to prevent seepage of water.

A : Corbels

B : Cornica

C : Copings

D : Floating

Q : 40) Cavity or hollow space in a wall is provided for-

- 1. Prevention of dampness**
- 2. Heat insulation**
- 3. Sound insulation**
- 4. Efflorescence**

A : 1 and 2

B : 1 and 3

C : 1, 2 and 4

D : 1, 2, 3 and 4

Q : 41) The horizontal member of the frame which divides the window horizontally is

A : Rail

B : Transit

C : Transome

D : Divider

Q : 42) Sash doors are most suited for

A : Hospitals

B : Toilets

C : Box rooms

D : Dressing rooms

Q : 43) In a residential building the width of a door should not be less than :

A : 1.2 m

B : 0.9 m

C : 0.6 m

D : 0.75 m

Q : 44) Which among the following is a step used for changing the direction of a stair?

A : Flight

B : Nosing

C : Landing

D : Winder

Q : 45) Marble chips in Coloured cement forming the floor covering material is called

A : Terrazzo

B : Mosaic

C : Linoleum

D : Magnesite

Q : 46) A type of flooring made with special aggregate of marble chips mixed with white and Coloured cement, is called :

A : Granolithic flooring

B : Terrazzo flooring

C : Mosaic flooring

D : Asphalt flooring

Q : 47) Structural members of the truss which are supported on the principal rafter and which run transverse to the truss are called

A : Struts

B : Purlins

C : Sagtie

D : Rafters

Q : 48) Working out exact quantities of various items of work is known as :

A : Quantity surveying

B : Estimating

C : Valuation

D : All of the above

Q : 49) The rights and privileges which an owner of a property enjoys through or over the property of another is known as –

A : Property right

B : Lease right

C : Legal right

D : Easement

Q : 50) Cost slope is the ratio of

A : Increase in cost by increase in time

B : Decrease in cost by increase in time

C : Increase in cost by decrease in time

D : Decrease in cost by decrease in time

Q : 51) The covered area of a building measured at floor level is called

A : Floor area

B : Plinth area

C : Carpet area

D : Circulation area

Result : **SSC JE 2019**

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