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MIXED PRACTICE PART - 10

For Any Query Call – 8595517959 | Website – everexam.org

Daily Class – 7:00 PM

Q : 1) The members which support covering material of a steel roof truss are:

A : Rafters

B : Purlins

C : Struts

D : Betens

Q : 2) Which of the following types of the riveted joint is free from bending stress :

A : Butt joint with single cover plate

B : Lap joint

C : Butt joint with double cover plate

D : None of the above

Q : 3) The effective length of filet weld should not be less than

A : Two times weld size

B : Six times weld size

C : Weld size

D : Four times weld size

Q : 4) For a rivet of 20 mm diameter, the diameter of hole will be taken as:

A : 18.5 mm

B : 21.5 mm

C : 21 mm

D : 19 mm

Q : 5) The value of Poisson's ratio for structural steel in the elastic range is taken as:

A : 0.3

B : 0.2

C : 0.15

D : 0.50

Q : 6) In upper bound theorem plastic analysis for a given frame subjected to a set of loads P, the value of P which is found to correspond to any assumed mechanism must be:

A : Greater than the collapse load P_u

B : Less than the collapse load P_u

C : Either greater than or equal to collapse load P_u

D : None of the above

Q : 7) The plastic theory is generally used for:

A : Columns only

B : Beams only

C : Roofs only

D : Rigid frame structures

Q : 8) Which of the following elements of a pitched roof industrial steel building primarily resist lateral load parallel to the ridge?

A : Purlins

B : Bracings

C : Truss

D : Columns

Q : 9) Two flats (110 mm × 16 mm) and (110 mm × 12 mm) are welded by V butt weld. If permissible stress is 142 N/mm^2, the strength of weld will be:

A : 167.75 kN

B : 195.56 kN

C : 187.44 kN

D : 210.25 kN

MIXED PRACTICE PART - 10

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Daily Class – 7:00 PM

Q : 10) Factor of safety is the ratio of:

A : Yield stress and working stress

B : Tensile stress and working stress

C : Compressive stress and working stress

D : Bearing stress and working stress

Q : 11) The load factor applied to dead loads or live loads in the design of steel structures is :

A : 1.3

B : 1.5

C : 1.7

D : 2.2

Q : 12) The shape factor of an I-section is:

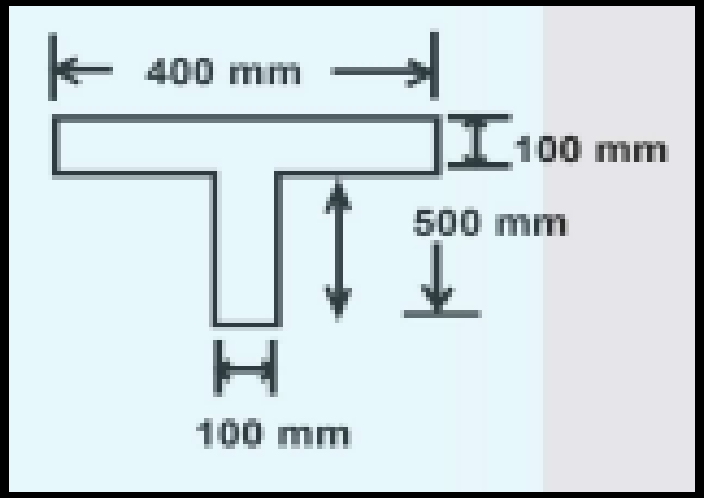
A : 1.04

B : 1.14

C : 1.70

D : 2.00

Q : 13) In the ‘T’ section as shown in figure, distance of neutral axis from top is:



A : 100 mm

B : 200 mm

C : 300 mm

D : 216 mm

Q : 14) A soil sample has liquid limit = 45%, plastic limit of 25%, shrinkage limit = 15% for natural water content of 30%, the consistency index for the sample is:

A : 40%

B : 50%

C : 75%

D : 60%

Q : 15) Westergaard's analysis for stress distribution beneath loaded area is applicable to:

A : Sandy soil

B : Stratified soil

C : Clayey soil

D : Silty soil

Q : 16) The permeability of following is very low:

A : Clay

B : Sand

C : Silt

D : Gravel

Q : 17) The minimum allowable factor of safety against sliding for a cantilever retaining wall is:

A : 3.0

B : 2.0

C : 1.5

D : 2.5

Q : 18) Liquifaction of sand is:

A : Sand enhance its shear strength due to oscillatory motion

B : Sand looses its shear strength due to oscillatory motion

C : Sand enhances its bearing capacity due to oscillatory motion

D : None of above

Q : 19) Darcy's law is not applicable for flow in:

A : Fine sands

B : Clays

C : Silts

D : Gravels

Q : 20) An over dried soil mass of 200 gm is placed is pycnometer and completely filled with water. Combined mass of bottle, soil and water is 1605 gm. Calculate specific gravity of soil if pycnometer with water alone has weight of 1480 gm-

A : 2.63

B : 2.65

C : 2.67

D : 2.69

Q : 21) Density index is the term used to express relative compactness of:

A : Cohesionless soil only

B : Cohesive soil only

C : Cohesive and cohesionless soils

D : All the above

Q : 22) In laboratory, coefficient of permeability of soil is determined by one of the following methods:

A : Pumping out test

B : Pumping in test

C : Horizontal capillarity test

D : Constant head test

Q : 23) Due to large leakage and flood damage problems, following type of coffer dam is not preferred :-

A : Braced type

B : Cantilever sheet pile type

C : Cellular type

D : Double wall type

Q : 24) H-piles is a type of one of the following piles:

A : Concrete piles

B : Timber piles

C : Steel piles

D : Composite piles

Q : 25) Rotation of machine foundation about Y, Z and X axes are respectively known as:

A : Yawning, pitching and rocking

B : Pitching, yawning and rocking

C : Rocking, pitching and yawning

D : Rocking, yawning and pitching

Q : 26) A cohesive soil yields a maximum dry density of 16 kN/m^3 during a standard proctor compaction test. What would be its void ratio if the specific gravity is 2.60:

A : 0.552

B : 0.625

C : 0.712

D : 0.583

Q : 27) The water content of a soil remains unchanged during the entire test in:

A : Drained test

B : Consolidated undrained test

C : Unconsolidated undrained test

D : None of these

Q : 28) If the porosity of a soil sample is 40%, void ratio for this sample would be:

A : 0.50

B : 0.70

C : 0.60

D : None of the above

Q : 29) The permeability of a soil sample depends upon:

A : Size of the particles

B : Shape of the particles

C : Void ratio

D : All of the above

Q : 30) If the value of uniformity coefficient of a soil sample is nearly equal to one. This sample will be designated as:

A : Well graded soil

B : Uniformly graded soil

C : Poorly graded soil

D : None of the above

Q : 31) If a soil sample is dried beyond its shrinkage limit, this sample will sow:-

A : No volume change

B : Moderate volume change

C : Low volume change

D : Large volume change

Q : 32) The void ratios at the densest, loosest and the natural states of a sand deposit are 0.2, 0.6 and 0.4 respectively. Relative density for this deposit will be:

A : 90%

B : 80%

C : 50%

D : 25%

Q : 33) The process by which the soil particles are artificially rearranged into a closer state of contact by mechanical means in order to decrease the porosity, is known as:

A : Consolidation

B : Compaction

C : Settlement

D : None of the above

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