

APPSC

ASSISTANT ENGINEER (AE) RECRUITMENT TEST - 2022 Held on: 12 June 2022





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SUBJECT WISE WEIGHTAGE

Sl. No.	Subject	Marks
1.	Soil Mechanics	19
2.	Strength of Materials	12
3.	RCC 12	
4.	Steel	10
5.	Estimating	10
6.	Building Construction	9
7.	Highway	8
8.	Building Material	6
9.	Sanitation	4
10.	Water Supply	4
11.	Concrete Technology	4
12.	Bridge Engineering	2
5	Total	100

* DOOR TO SUCCESS

- The plinth area of a building includes the
- (A) area of the walls at the floor level
- (B) lift and wall excluding landing
- (C) area of cantilevered porch
- (D) Both (A) and (B)

Answer: A

1.

2.

- Pick up the correct statement regarding the centre line method of estimating a building.
- (A) Product of the centre line of the walls and area of cross-section of any item, gives total quantity of the item
- (B) The centre line is worked out together for different sections of walls of a building
- (C) The centre line length is increased by half the layer of main wall joining the partition wall
- (D) All of the above

Answer: A

3.

The _____ area of a building along with area of its kitchen, pantry, lavatory, bathroom and glazed veranda is called area.

- (A) floor, carpet
- (B) carpet, floor
- (C) floor, built-up
- (D) carpet, built-up

Answer: B

- Box type section should preferably be used at places where _____ occurs.
 - (A) compression
 - (B) tension

4.

- (C) torsion
- (D) None of the above

Answer: C

in a steel column should be designed to resist shear force due to 2.5% of the column load.

- (A) Shear lags
- (B) Lacing bars
- (C) Lug angles
- (D) Ties

Answer: B

6.

- In moment resistant connections, the moment resistance of riveted connection depends upon
- (A) shear in rivets
- (B) compression in rivets
- (C) tension in rivets
- (D) strength of rivets in bearing

Answer: A

The maximum slenderness ratio of a steel compression member subjected to dead load and live load is

Selfin Labora

- (A) 180
- (B) 250
- (C) 350
- (D) 400

Answer: A

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DOOR TO S

- As per IS : 800, the efficiency of a having the minimum pitch is 60%.
 - (A) butt joint

9.

- (B) bolted joint
- (C) riveted joint
- (D) welded joint

Answer: C

Min". pitch , Pminm = 2.5d Efficiency, n = Tearing Strength of plate ×100% strength of solid plate in a riveted Connection. (P-nd)Xt x Sat XIONY

- txpx 5.t $d_{x|e_{x};n=1}$
- 2-5d-d × 10%
- 1.5d 2.5d ×100 %.
- 60%

Thus in a vireted Connection, efficiency is 60%. Aith minm. pitch .

web stiffeners are used in plate girder to avoid buckling of web plate.

- (A) Horizontal
- (B) Inclined
- (C) Vertical
- (D) Vertical and horizontal

Answer: C

- 10. High strength bolts are the most suitable type of bolt when the bolts are subjected to
 - (A) decrease in stresses
 - (B) increase in stresses
 - (C) reversal of stresses
 - (D) None of the above

Answer: C

- 11. A tri-axial shear test is preferred to direct shear test, because
 - (A) it can be performed under all three drainage conditions with complete control
 - (B) stress distribution on the failure

 - plane is non-uniform
 - (C) precise measurement of pore pressure and change in volume during test is not possible
 - [D] None of the above

Answer: A

- 12. Load on connection is not eccentric for
 - (A) lap joint
 - (B) single cover butt joint
 - (C) welded joint
 - (D) None of the above

Answer: D

- 13.
- Effective diameter of rivet is equal to
- (A) rivet hole diameter
- (B) nominal diameter of rivet
- (C) 1.5 times of rivet hole diameter
- (D) 1.5 times of nominal diameter of rivet

Answer: A

The partial safety factor for strength of _____ at limit state of collapse is 1.15.

- (A) steel
- (B) concrete
- (C) aggregate The parts of la
- (D) None of the above

Answer: A

- 15. If the _____ in an RCC beam is greater than , shear reinforcement shall be provided.
 - (A) nominal shear stress, design shear stress 1 1 1 1 1 1 1 1 1
 - (B) nominal shear stress, maximum shear stress
 - (C) design shear stress, nominal shear stress
 - (D) design shear stress, maximum shear stress

Answer: A

16.

17.

- In a reinforced concrete beam, if the failure strain of concrete in bending compression reaches earlier than yield strain in steel, the beam section is called
- (A) balanced section
- (B) critical section
- (C) overreinforced section
- (D) underreinforced section

Answer: C

transverse The spacing of reinforcement of column is decided by which of the following considerations?

- (A) Sixteen times the diameter of the transverse reinforcement
- (B) Forty eight times the diameter of the smallest longitudinal bar in the column
- (C) Forty eight times the diameter of the transverse reinforcement
- D None of the above

Answer: D

- 18. A 300 mm×300 mm RC column is reinforced with eight bars. Four bars are 12 mm diameter and four bars are 10 mm diameter. The diameter of lateral ties is 6 mm. The pitch of lateral ties shall be kept as
 - (A) 300 mm
 - (B) 288 mm
 - (C) 192 mm
 - (D) 160 mm

Answer: D

- Com Size = 300 mm × 300 mm
- Asc = 4× 11/4×12 + 4× 10/4×10
 - = 766.55 mm

Att = 6 mm

pitch of lateral time is the lasser of the following

- 1 least lateral Dimension of Clm = 300 mm.
- (1) 16x Dia of Smallest Dia. longitudinal bay = 16× 10 = 160 mm.
- (11) 300mm.
- :. spacing = 160 mm.

19.

20.

ARE

As per IS : 456, the reinforcement in a should not be less than 0.8% and not more than 6% of cross-sectional area.

- (A) beam
- (B) column
- (C) slab
- (D) rectangular beam

Answer: B

Tensile reinforcement bars of a rectangular beam are _____ at suitable places to serve as _____ reinforcement.

- (A) bent down, shear
- OOR TO SU (B) bent up, shear
 - (C) bent down, compression
 - (D) bent up, compression

Answer: **B**

- 21. Pick up the correct statement from the following : STRUG BOL
 - (A) Alternate bars are curtailed at $\frac{1}{7}$ th of the span of simply supported beam
 - (B) Alternate bars are curtailed at

 $\frac{1}{7}$ th of the span of simply supported slab

- (C) Alternate bars are curtailed at
- $\frac{1}{5}$ th of the span of simply supported beam
- D) Alternate bars are curtailed at

 $\frac{1}{5}$ th of the span of simply supported slab

Answer: B

2<mark>2</mark>.

23.

- The steel generally used in RCC work is
- (A) stainless steel
- (B) high carbon steel
- (2) high tension steel
- (D). mild steel

Answer: C

Limiting value of ratio of depth of neutral axis to effective depth for Fe-415 grade of steel as per IS : 456-2000 is

- (A) 0.53
- (B) 0.46
- Q 0.56
- (D) 0.48

Answer: **D**

A DOOR For RCC bridges, the smallest span 24. beyond which the impact factor is same for class ____ loading (wheeled vehicles) is 12 m.

- (A) A or B
- (B) AA
- (C) 70R
- (D) All of the above ø

Answer: D

For class A&B RCC Bridge I.F= 4.5 6+L = 4.5 6+12 = 0.25 = 25% For class AA & to R

RCC Bridge

(usheeled Vehicle) is 25% as per IRC upto 12 m

- 25. The _____ gradient for vertical profile of a road is ruling gradient.
 - (A) maximum design
 - (B) minimum design
 - (C) exceptional design
 - (D) critical design

Answer: A

26.

27.

The equilibrium superelevation required to counteract the centrifugal force fully for a higher circular curve of radius R and design speed V is

 V^2 (A) 27.5R (B) 75R (0.75V)(C) 127R

 V^2 (D) 127R

Answer: D

California bearing ratio is a

- (A) method of soil identification +
- (B) measure to indicate the shear strength of lateral confinement +
- (C) measure to indicate the strength of soil
- D) measure to indicate the relative strengths of paving material
- Answer: D

- 28.
 - If the aggregate impact value is _____ percent, then it is classified as satisfactory for road surfacing.
 - (A) 10 to 20
 - (B) 20 to 30
 - (C) 30 to 40
 - (D) 40 to 50

Answer: B

- 29.
- A bitumen primer is a _____cutback.
- (A) low viscosity
- (B) medium viscosity
- (2) high viscosity
- (D) None of the above

Answer: C

- 30.
- The camber of shoulders in water bound macadam roads is
- (A) zero e
- (B) less than the cross slope of pavement
- (C) more than the cross slope of pavement
- (D) None of the above

Answer: D

- 31. The ductility value of bitumen for suitability in road construction should 50 cm.
 - (A) be equal to
 - (B) be less than
 - (C) not be less than
 - (D) None of the above

Answer: C

- 32. Which of the following piles is used to compact loose granular soil?
 - (A) Friction piles
 - (B) End bearing piles .
 - (C) Tension piles
 - (D) None of the above
 - Answer: D

33.

Compaction pile is used to compact loose granular soil

Bottommost layer of pavement is known as

- (A) base course
- (B) sub-base course
- (Q) subgrade
- (D) wearing course
- Answer: C

34. The measure of absorption or scattering of light by the _____ present in the water is known as turbidity.

- (A) dissolved solids
- (B) suspended solids
- (C) total solids
- (D) All of the above
- Answer: B

35.

Bearing capacity of soil should be calculated from the criteria of

- (A) compaction only
- (B) settlement only
- (C) compaction and settlement.
- (D) shear and settlement

Answer: D

Which coagulant is generally used for sewage treatment?

- (A) Alum
- (B) Lime
- (C) Ferric chloride
- (D) Bleaching powder

Answer: C

37.

38.

39.

- Biological action is used in
- (A) tricking filter
- (B) grit chamber
- (C) screens 🖈
- (D) sedimentation tank

Answer: A

The gases given out of a septic tank are

- (A) $CO_2 + SO_2 + N$
- (B) $CO_2 + PH_3 + NH_3$
- (C) $CO_2 + CH_4 + H_2S$
- $(D) CH_4 + O_2 + H_2$

Answer: C

Detention time assumed while designing a _____ is 20 minutes.

- (A) flocculator
- (B) coagulation tank
- (C) rapid sand filter *
- (D) slow sand filter +

Answer: A

40.

In sewage treatment plant, the oil and grease are removed by

- (A) oxidation
- (B) filtration
- (C) screening
- (D) skimming

Answer: D

- 41. In a centrifugal pump casing, the flow of water leaving the impeller is
 - (A) radial
 - (B) centrifugal
 - (C) rectilinear
 - (D) None of the above

Answer: D

42.

43.

CARE

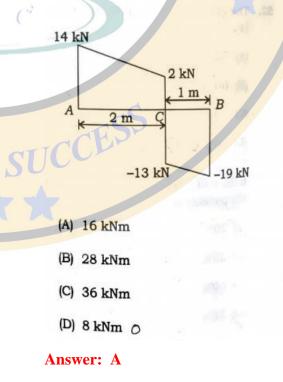
Answer is Free Vortex

As per IS : 456-2000 for the design of reinforced concrete beam, the ______ depends on the grade of concrete.

- (A) maximum allowable shear stress
- (B) maximum allowable bending stress
- (C) maximum allowable normal stress
- (D) minimum allowable bending stress

Answer: A

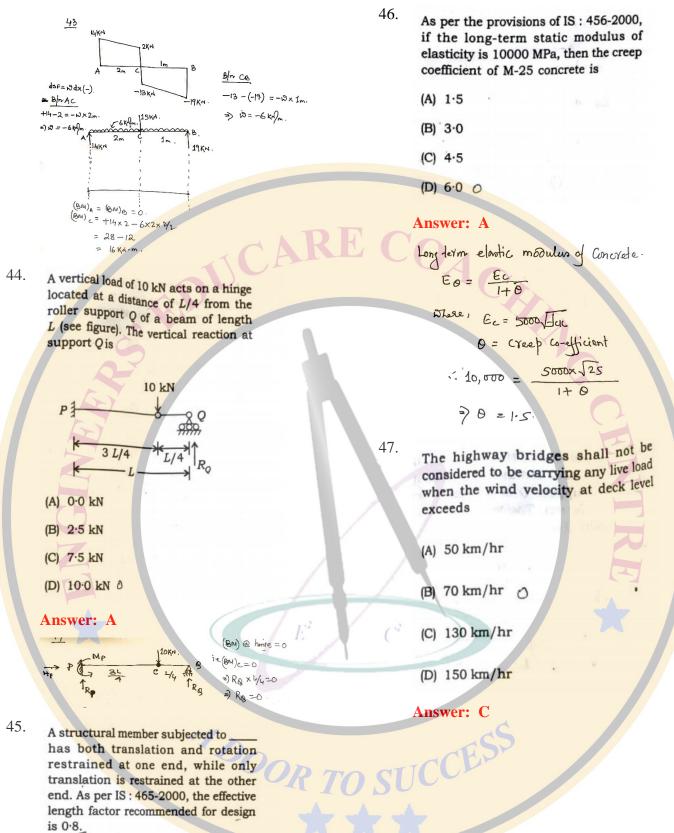
The shear force of diagram of a loaded simply supported beam is shown in the figure below. The maximum bending moment in the beam is



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- (A) tension
- (B) compression
- (C) shear
- (D) torsion

Answer: B

48. A wooden pile is being driven with a drop hammer weighing 30 kN and having a free fail of 20 m. The load carrying capacity of the pile as per Engineering News formula is
(A) 111-11 kN
(B) 222-22 kN O
(C) 333-33 kN
(D) 444-44 kN
Answer: C
(C) 333-33 kN
(D) 444-44 kN
Answer: C
(C)
$$\frac{144}{2}$$
 form eV = $\frac{1}{2}$ (a) $\frac{1}{2}$ (b) $\frac{1}{2}$ (c) $\frac{$

$$Y_{i} = 2e \cdot 22 \ k / m^{2} \quad \omega_{i} = \frac{1}{2} \cdot \frac{1}{2$$

- 56. The presence of _____ in bricks prevents cracking.
 - (A) alumina
 - (B) lime
 - (C) silica
 - (D) iron oxide

Answer: C

- 57.
 - The normal consistency of ordinary Portland cement is about
 - (A) 10%
 - (B) 20%
 - (C) 30%
 - (D) 25%
 - Answer: C
- 58.

The phenomenon of increase in volume of sand due to _____ around the sand particles is known as bulking of sand.

- (A) presence of moisture content
- (B) presence of air
- (C) presence of clay content
- (D) None of the above

Answer: A

59.

What happens to the strength of concrete on increasing loading rate?

- (A) It increases
- (B) It decreases
- (C) It is unaffected by rate of loading
- (D) None of the above

Answer: A

- 60. What is the approximate ratio of direct tensile strength to flexural strength of concrete?
 - (A) 1 ·
 - (B) 0.75
 - (C) 0·5

(D) 0·25

Answer: C

Flexural strength of concrete = 0.7 yes. Direct tensile strength = $\frac{1}{2} \times \text{ Flexural Strength}$.

0.7

 $\therefore \frac{\frac{1}{2} \times 0.7 \text{ flux}}{0.7 \text{ flux}} = \frac{1}{2} = 0.5.$

61. The crack propagation in high strength concrete may occur through the coarse aggregates.

- (A) True
- (B) False
- (C) Can't say
- (D) None of the above
- Answer: A

62.

Which of the following factors affects the mechanical properties of a material under applied loads?

- (A) Grain size
- (B) Imperfection and defects
- (C) Content of alloys
- (D) Shape of material O

Answer: D

The time dependent deformation decreases as the aggregate content in the concrete

- (A) decreases
- (B) increases
- (C) remains same
- (D) Can't say

Answer: B

- 64. Principal planes are those on which normal stress is
 - (A) maximum
 - (B) minimum
 - (C) either maximum or minimum
 - (D) zero

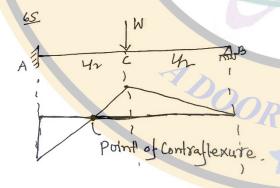
Answer: C

65.

A cantilever beam AB of length *l* carries a concentrated load W at its midspan C. If the free end B is supported on a rigid prop, then there is a point of contraflexure

- (A) between A and C
- (B) between C and B
- (C) one between A and C, and other between C and B_{O}
- (D) Nowhere in the beam

Answer: A



For a beam of rectangular section of width b and depth d, the maximum bending stress in the cross-section for a moment M is

(A) $\frac{6M}{bd^3}$

(B)

(B) $\frac{12M}{bd^2}$ (C) $\frac{12M}{bd^3}$

6M

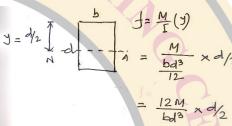
 bd^2

М

Answer: D

67.

(D)



6M bolz

Sudden changes in shear stress distribution diagram at a cross-section shows

- (A) sudden change in depth of the section
- (B) sudden change in width of the section
- (Ø) Both (A) and (B)
- (D) None of the above

Answer: B

66.

- 68. The bending moment diagram for a simply supported beam carrying a uniformly distributed load w per unit length, will be
 - (A) a horizontal line mm

w

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- (B) a vertical line
- (C) an inclined line
- (D) a parabolic curve

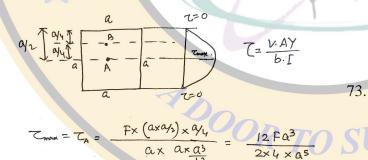
Answer: D

69.

At a section of a beam, shear force is F with zero BM. The cross-section is square with side a. Point A lies on neutral axis and point B is mid-way between neutral axis and the top edge. If τ_A and τ_B denote shear stresses at If τ_A and B, then the value of τ_A/τ_B

- (A) 2/3
- (B) 3/2
- (C) 4/3
- (D) 3/4

Answer: C



$$= \frac{F(a \times a/4) \times (\frac{a}{4} + \frac{a}{8})}{a \times a \frac{a3}{12}} = \frac{12 F a^{3} \times \frac{3}{8}}{4 \times a^{5}}$$

$$T_{\Theta} = \frac{\Gamma(\alpha, \beta, \beta)}{\alpha \times \alpha \alpha_{3}} = \frac{\alpha \times \alpha \alpha_{3}}{12} = \frac{1}{12}$$

 $\frac{1}{T_{A}} = \frac{3}{2} \frac{3}{9} \frac{1}{8} = \frac{4}{3}.$

- 70. A portion of a beam between two sections is said to be in pure bending when there is
 - (A) constant bending moment and zero shear force
 - (D) 2.2 (B) constant shear force and zero bending moment 83. A brick
 - (C) constant bending moment and constant shear force
 - (D) None of the above

Answer: A

71.

72.

- Up to which point on the stress-strain curve, the Hooke's law is valid?
- (A) Elastic limit
- (B) Yield limit
- (2) Proportionality limit
- (D) Fracture point

Answer: C

- The neutral axis of the cross-section of a beam is that axis at which the zero.
 - (A) tensile stress
 - (B) bending stress O
 - (C) compressive stress
 - (D) shear stress

Answer: B

For a beam of rectangular section of width b and depth d, the maximum shear stress in the cross-section for a shear force V is

- (A) V/bd
- (B) 1.5V/bd
- (C) 2V/bd
- (D) 4V/bd

Answer: **B**

= = F/~.

The foundation is laid below the If height of the first storey of building is ground in such a way that a load of the 3.2 m and riser is 13 cm, the number structure is _____ to the ground to make of treads required is the structure stable. (A) 12 (A) concentrated (B) 18 (B) varyingly distributed (C) 24 (C) uniformly distributed (D) eccentrically loaded (D) 30 0 Answer: C Answer: C 75. When a brick is cut along its length, Height = 3.2m. making it two equal halves, then it is called Riser Height = 13 cm = 0.13 m (A) King closer Rispris = 3.2 (B) Mitred closer (C) Beveled closer Tread. (D) Queen closer Answer: D 79. The _ which help in securing the head of door frame to the masonry are 76. The process of making background called horns. rough before plastering is (A) horizontal projections (A) dubbing (B) vertical projections (B) hacking (C) inclined projections (C) blistering (D) None of the above (D) peeling Answer: A Answer: **B** 80. The slope of stairs should never exceed 77. door is generally provided in and should not be flatter than cinema halls. (A) 50°, 25° OOR TO SU (A) Louvered (B) 40°, 25° (B) Flush (C) 40°, 20° (C) Sliding (D) 50°, 20° (D) Revolving Answer: B

78.

Answer: D

74.

- 81. The triangular upper part of a wall formed at the end of a ______ is called a gable.
 - (A) curved roof
 - (B) flat roof
 - (C) shed roof
 - (D) pitched roof O

Answer: D

82.

In one day brick masonry should not be raised by more than

- (A) 0.5 m
- (B) 1.5 m
- (C) 2.0 m
- (D) 2.5 m

Answer: **B**

83.

A brick masonry bond consisting of alternative courses of headers and stretchers, is called

- (A) stretcher bond
- (B) Flemish bond
- (C) header bond
- (D) English bond

Answer: D

84.

- The shear strength of a soil
- (A) is directly proportional to the angle of internal friction of the soil
- (B) is inversely proportional to the angle of internal friction of the soil
- (Q) decreases with increase in normal stress
- (D) decreases with decrease in normal stress

Answer: D

$$s = c + a \tan q$$

saa

85.

86.

- The water content between the plastic state to semi-solid state is called
 - (B) liquid limit
 - (C) shrinkage limit
 - (D) None of the above

Answer: A

A sample of silty clay is allowed to absorb water and the saturated water content is observed to be 30%. Also the saturated unit weight of the soil is found to be 19 kN/m^3 . Determine the void ratio of the sample. Assume unit weight of water is 10 kN/m^3 .

- (A) 0·53
- (B) 0·62
- Je; 0.78

(D) 0·85

Answer: C

$$w = 30\% = 0.3$$

Yw = 10 KNm3.

 $e = \omega h$

$$1 \times e = 0.3 \times e$$

$$G = \frac{c}{0.3}$$

$$\begin{aligned} & S_{SAF} = \frac{G + e}{1 + e} S_{LO} \\ = \frac{e}{0 \cdot 3} + e}{1 + e} X_{IO} \\ = \frac{e}{0 \cdot 3} + e}{1 + e} X_{IO} \end{aligned}$$

- 87. The bearing capacity of a soil depends upon the
 - (A) size of the particles
 - (B) shape of the particles
 - (C) cohesive properties of the particles
 - D) All of the above

Answer: D

88.

The minimum water content at which the soil just begins to crumble when rolled into a thread of 3 mm in diameter, is known as the

- (A) liquid limit
- (B) plastic limit
- (C) shrinkage limit
- (D) None of the above

Answer: B

89.

A partially saturated sample of soil has a unit weight of 2.0 g/cm^3 and specific gravity of soil particles is 2.6. If the moisture content in the soil is 20%, the degree of saturation is

- (A) 20%
- (B) 77% O
- (C) 92%
- (D) None of the above

Answer: C

8 = 2 g/cm 3.

 $= \frac{0.2 \times 2.6}{0.56}$ = 0.92 = 92 %

90.

91.

The effective angle of shear resistance _____ as the size of particles

- (A) increases, increases
- (B) increases, decreases
- (C) decreases, increases
- (D) None of the above

Answer: A

The vane shear test is used for the insitu determination of the undrained strength of the intact fully saturated

- (A) sands
- (B) clays
- (C) gravels
- (D) highly organic soils

Answer: B

A DOOR TO

- 92. If the water table rises up to ground surface, then the effective stress is ______ due to _____ in pore water pressure but total stress _____.
 - (A) reduced, decrease, does not change +
 - (B) reduced, increase, does not change
 - (C) reduced, decrease, decreases +
 - (D) reduced, increase, decreases

Answer: B

93.

94.

- (A) increases, increase
- (B) decreases, increase
- (C) increases, decrease
- (D) None of the above

Answer: A

While preparing a detailed estimate

- (A) dimension should be measured correct to 0.01 m
- (B) area should be measured correct to 0.01 sq.m
- (C) volume should be measured correct to 0.01 cum
- (D) All of the above 🔿

Answer: D

95.

While estimating a reinforced cement structure the omitted cover of concrete is assumed at the end of reinforcing bar, not less than _____ or ____ the diameter of the bar.

- (A) 12 mm, twice 0
- (B) 25 mm, thrice
- (C) 12 mm, thrice
- (D) 25 mm, twice

Answer: D

- 96. For 12 mm thick cement plastering 1:6 on 100 sq.m new brickwork, the quantity of cement required, is
 - (A) 0.200 m^3
 - (B) 0.247 m³
 - (C) 0.274 m^3
 - (D) 0.295 m^3

Answer: C

Dry volume

100 × 0.012 × 1.3×1.25

1.95 m3

Bty of Cement

$$=\frac{1.95}{1+6}=0.278 m^3$$

97. In analysis of rate, the quantity of dry mortar for 10 cubic metre brickwork is taken as

(A) 3 m³

(B) 10 m³

- (C) 1 m^3
- (D) 0.3 m³

Answer: A

No.

Bricks = 10 _

0.2×0.1×0.

= 500

2.303 m3.

. aly of dry mortor

$$= 1.3 \times 2.303$$

= 2.99 m3
 $\sim 3m3.$

The quantity of partition walls and honeycomb walls are worked out in

- (A) m
- (B) m²
 - (C) m³
 - (D) lump sum

Answer: B

- 99.
 - For 100 sq.m cement concrete (1:2:4) 4 cm thick floor, the quantity of cement required is
 - (A) 0.90 m³
 - (B) 0.94 m³
 - (C) 0.98 m³
 - (D) 1.00 m³

Answer: B

```
Z
   cement concrete
 i m
     X0.04
```

me

- 5×1.1 1.
- 6.6 m 3

1+2+4 0.94 m 3.

6.

100. The _____ _ includes the area of the balcony up to 50%.

- (A) carpet area
- (B) built-up area
- (C) floor area
- (D) plot area
- COACHIA Answer: C





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ESS	NEE - I (2018)	
OUR SUCCI	Qualified : 9	
	NEE - I (2019)	
NO	Qualified : 9	

TARA COMPLEX, near NERIST GATE, Nirjuli, Papum Pare, A.P - 791109, Mob: 84030 81436, Email: eeccnirjuli@gmail.com