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**Question No.1**

Marks: 1.00

**Bookmark**

The core cutter method cannot be used in case of

- (A)  clay with silty sand
- (B)  clayey soils
- (C)  red soils
- (D)  **gravelly soils (Correct Answer)** (Chosen option)

**Question No.2**

Marks: 1.00

**Bookmark**

Surface run off caused by rainfall which is conveyed through sewer is called

- (A)  **Combine sewer (Correct Answer)**
- (B)  Sanitary sewage
- (C)  Relive or auxiliary sewer
- (D)  Storm sewage (Chosen option)

**Question No.3**

Marks: 1.00

**Bookmark**

Which of the following errors of project network is related to dummy activity?

- (A)  Looping error
- (B)  **Redundancy error (Correct Answer)**
- (C)  Dangling error (Chosen option)
- (D)  Closing error

**Question No.4**

Marks: 1.00

**Bookmark**

The land acquired for the road, along its alignment for possible future development is called:

- (A)  Roadway width
- (B)  Formation width (Chosen option)
- (C)  **Right of way (Correct Answer)**
- (D)  Parking lanes

**Question No.5**

Marks: 1.00

**Bookmark**

The area in which inferior crops can be grown without irrigation is called:

- (A)  **Semi-arid region (Correct Answer)**



- (B)  Arid region
- (C)  Open terrain
- (D)  Drought region (Chosen option)

**Question No.6**

Marks: 1.00  
Bookmark

Below the permanent wilting point the soil contains \_\_\_\_\_ water.

- (A)  **hygroscopic (Correct Answer)** (Chosen option)
- (B)  capillary
- (C)  available
- (D)  gravitational

**Question No.7**

Marks: 1.00  
Bookmark

\_\_\_\_\_ is/are used where the ground water is highly corrosive to steel pipes.

- (A)  G.I Pipes
- (B)  Polythene Tubes
- (C)  **Copper tubing (Correct Answer)**
- (D)  Lead pipes

**Question No.8**

Marks: 1.00  
Bookmark

Which of the following surveys is done to produce plans of property boundaries for legal purposes?

- (A)  Hydrographic Survey
- (B)  **Cadastral Survey (Correct Answer)** (Chosen option)
- (C)  Engineering Survey
- (D)  Topographical Survey

**Question No.9**

Marks: 1.00  
Bookmark

A catchment has 5 rain gauge stations, for a 6% error in estimation of mean rainfall and coefficient of variation of rainfall values of existing stations is 20. Determine additional no. of stations needed

- (A)  8
- (B)  9 (Chosen option)
- (C)  **7 (Correct Answer)**
- (D)  12

**Question No.10**

Marks: 1.00  
Bookmark

For a meandering alluvial river of width  $W$  in flood plain, the meander length is about:

- (A)   $2W$
- (B)   $17W$
- (C)   $18W$
- (D)   **$6W$  (Correct Answer)**

**Question No.11**

Marks: 1.00  
Bookmark

When a body is floating, sense of tilt and sense of internal couple due to buoyancy and weight of the body is in a clockwise direction then the body is in which state?

- (A)  Vertically unstable
- (B)  Vertically stable
- (C)  **Rotationally unstable (Correct Answer)**
- (D)  Rotationally stable

**Question No.12**

Marks: 1.00

**Bookmark**

After how much time the formwork is usually removed once the walls, columns, and vertical faces of all structural parts have been built?

- (A)  14 days
- (B)  7 days
- (C)  3 days
- (D)  **24 to 48 hours (Correct Answer) (Chosen option)**

**Question No.13**

Marks: 1.00

**Bookmark**

The device used for measuring distances by attaching it to the wheel of a vehicle is called \_\_\_\_\_

- (A)  pedometer
- (B)  **odometer (Correct Answer) (Chosen option)**
- (C)  passometer
- (D)  perambulator

**Question No.14**

Marks: 1.00

**Bookmark**

Find discharge through pipe line 15 cm in diameter and 1000 m long, the drop in the water level is 7.7 m. (Assume  $F = 0.02$ )

- (A)   $Q = 10.018 \text{ m}^3/\text{s}$
- (B)   $Q = 20 \text{ m/s}$
- (C)   **$Q = 0.018 \text{ m}^3/\text{s}$  (Correct Answer)**
- (D)   $Q = 0.017 \text{ m}^3/\text{s}$

**Question No.15**

Marks: 1.00

**Bookmark**

Water boils at  $100^\circ\text{C}$  at sea level but  $95^\circ\text{C}$  in:

- (A)  Compressed level (Chosen option)
- (B)  Expanded level
- (C)  Sea level
- (D)  **Denver level (Correct Answer)**

**Question No.16**

Marks: 1.00

**Bookmark**

Sight distance on roads is required:

- (A)  **Both at horizontal and vertical curves (Correct Answer) (Chosen option)**
- (B)  Only at horizontal curves
- (C)  Only where roads passes through embankments

(D)  Only at vertical curves

**Question No.17**

Marks: 1.00

**Bookmark**

Name the apparatus used to find the heat of hydration of concrete.

- (A)  **Calorimeter (Correct Answer)**
- (B)  Osmoscope
- (C)  Potentiometer
- (D)  Tintometer

**Question No.18**

Marks: 1.00

**Bookmark**

The depth of water required to bring the soil moisture content of a given soil up to its field capacity is called:

- (A)  Pellicular water (Chosen option)
- (B)  **Soil moisture deficiency (Correct Answer)**
- (C)  Hygroscopic water
- (D)  Equivalent moisture

**Question No.19**

Marks: 1.00

**Bookmark**

Which of the following shapes is/are NOT used in R.C.C. piers?

- (A)  Rectangular
- (B)  Trestle bent (Chosen option)
- (C)  **T shapes (Correct Answer)**
- (D)  Dumb bell type

**Question No.20**

Marks: 1.00

**Bookmark**

Given that the width of the sleepers= $w$ , the sleeper spacing= $s$ , then the depth of ballast 'd' is:

- (A)   **$(s - w)/2$  (Correct Answer)** (Chosen option)
- (B)   $s - w$
- (C)   $(w - s)/2$
- (D)   $w - s$

**Question No.21**

Marks: 1.00

**Bookmark**

The body in which deformation is considered in the analysis, this field is called:

- (A)  **Strength of materials (Correct Answer)** (Chosen option)
- (B)  Earthquake engineering
- (C)  Dynamics
- (D)  Statics

**Question No.22**

Marks: 1.00

**Bookmark**

The distance from the boundary of the solid body measured in the y-direction to the point where the velocity of the fluid is approximately equal to 0.99 times the stream velocity of the fluid is known as:

- (A)  Displacement thickness
- (B)  **Boundary layer thickness (Correct Answer)**
- (C)  Boundary layer
- (D)  Laminar boundary layer

**Question No.23**

Marks: 1.00

**Bookmark**

Which of the following tests is used to find out the workability of highly workable concrete?

- (A)  Vee-bee test (Chosen option)
- (B)  **Flow table test (Correct Answer)**
- (C)  Slump test
- (D)  Kelly ball test

**Question No.24**

Marks: 1.00

**Bookmark**

The length of column is 3.5 m and its size is 350 × 350 mm. For this column, the minimum eccentricity is

- (A)  19 mm
- (B)  18 mm
- (C)  17 mm
- (D)  **20 mm (Correct Answer)**

**Question No.25**

Marks: 1.00

**Bookmark**

If the soil sample is having a plastic limit of 28%, natural moisture content of 44% and a liquidity index of 55%, the liquid limit is \_\_\_\_\_.

- (A)  71%
- (B)  67%
- (C)  **57% (Correct Answer)**
- (D)  59%

**Question No.26**

Marks: 1.00

**Bookmark**

If the soil sample is having void ratio of 0.71, the porosity of the given sample is

- (A)  20%
- (B)  30% (Chosen option)
- (C)  50%
- (D)  **40% (Correct Answer)**

**Question No.27**

Marks: 1.00

**Bookmark**

In a slab, what is the sum of the nodal forces at any yield line intersection?

- (A)  **Zero (Correct Answer) (Chosen option)**
- (B)  Determinate
- (C)  Infinity
- (D)  Indeterminate

**Question No.28**

Marks: 1.00

**Bookmark**

Soundness test of aggregate is intended to study the resistance to \_\_\_\_\_ action.

- (A)  toughness (Chosen option)
- (B)  hardness
- (C)  **weathering (Correct Answer)**
- (D)  abrasion

**Question No.29**

Marks: 1.00

**Bookmark**

For continuous beam the shear force coefficient at inner side of support which is next to the end support when only live load is considered is:

- (A)  **0.6 (Correct Answer)**
- (B)  0.50
- (C)  0.55
- (D)  0.45

**Question No.30**

Marks: 1.00

**Bookmark**

Major projects of irrigation are those which have irrigation potential of more than:

- (A)  5,000 hectares (Chosen option)
- (B)  300 hectares
- (C)  **10,000 hectares (Correct Answer)**
- (D)  20,000 hectares

**Question No.31**

Marks: 1.00

**Bookmark**

Which one of the following is CORRECT example of vector quantity?

- (A)  Speed and velocity
- (B)  **Displacement and velocity (Correct Answer)** (Chosen option)
- (C)  Distance and speed
- (D)  Distance and displacement

**Question No.32**

Marks: 1.00

**Bookmark**

By crashing which one of the following activities, both time and cost can be reduced?

- (A)  Cheapest and non-critical
- (B)  Costliest and critical
- (C)  Costliest and non-critical
- (D)  **Minimum cost slope and critical (Correct Answer)** (Chosen option)

**Question No.33**

Marks: 1.00

**Bookmark**

The recommended camber value for thin bituminous surface for heavy rainfall area is:

- (A)  2%
- (B)  1.5%
- (C)  3% (Chosen option)
- (D)  **2.5% (Correct Answer)**

**Question No.34**

Marks: 1.00

**Bookmark**

Which of the following cash books has two accounts namely cash account and discount account?

- (A)  Triple column cash book
- (B)  Simple cash book
- (C)  **Double column cash book (Correct Answer) (Chosen option)**
- (D)  Petty cash book

**Question No.35**

Marks: 1.00

**Bookmark**

The main function of Motor Vehicle Act is:

- (A)  To conduct road investigations
- (B)  To collect tax on fuel
- (C)  To prepare standard specifications and reports (Chosen option)
- (D)  **To regulate the road traffic in the form of traffic laws, ordinances and regulations (Correct Answer)**

**Question No.36**

Marks: 1.00

**Bookmark**

In a work-breakdown structure, the \_\_\_\_\_ approach to planning is adopted.

- (A)  Bottom-up
- (B)  Horizontal
- (C)  **Top-down (Correct Answer)**
- (D)  De-centralised

**Question No.37**

Marks: 1.00

**Bookmark**

Which of the following is NOT a component of Sub-structure?

- (A)  **Girders (Correct Answer)**
- (B)  Abutments
- (C)  Piers (Chosen option)
- (D)  Wing walls

**Question No.38**

Marks: 1.00

**Bookmark**

What is the ratio of ultimate stress to the working stress?

- (A)  **Factor of safety (Correct Answer) (Chosen option)**
- (B)  Young's modulus
- (C)  Bulk modulus
- (D)  Shear modulus

**Question No.39**

Marks: 1.00

**Bookmark**

The soil sample collected using split-spoon sampler is \_\_\_\_\_ type of sample.

- (A)  **disturbed (Correct Answer)**
- (B)  undisturbed
- (C)  non - representative



(D)  sandy

**Question No.40**

Marks: 1.00

**Bookmark**

CPM stands for:

- (A)  **Critical Path Method (Correct Answer)** (Chosen option)
- (B)  Critical Project Management
- (C)  Controlling Planning and Maintenance
- (D)  Computer Programme Network

**Question No.41**

Marks: 1.00

**Bookmark**

Net rent + Outgoings is equal to:

- (A)  Total rent
- (B)  **Gross rent (Correct Answer)**
- (C)  Depreciation value
- (D)  Annual rent

**Question No.42**

Marks: 1.00

**Bookmark**

Fishplate contains how many fish bolts?

- (A)  5
- (B)  2
- (C)  **4 (Correct Answer)** (Chosen option)
- (D)  3

**Question No.43**

Marks: 1.00

**Bookmark**

Which of the following methods is NOT used to prepare the approximate estimates?

- (A)  **Critical Path method (Correct Answer)**
- (B)  Plinth area method (Chosen option)
- (C)  Cubical contents method
- (D)  Unit base method

**Question No.44**

Marks: 1.00

**Bookmark**

Force can be transmitted from one point to another along the same line of action such that the effects produced by the force remains the same' is the:

- (A)  Principle of Physical Independence of forces
- (B)  Principle of Superposition of forces (Chosen option)
- (C)  Resolution of forces
- (D)  **Principle of Transmissibility of forces (Correct Answer)**

**Question No.45**

Marks: 1.00

**Bookmark**

A long-span bridge is that which has a span of more than \_\_\_\_\_.

- (A)  100 m
- (B)  140 m

- (C)  50 m  
(D)  120 m (Correct Answer) (Chosen option)

**Question No.46**

Marks: 1.00  
Bookmark

Grading of the bitumen is determined by:

- (A)  Only viscosity test (Chosen option)  
(B)  Only penetration test (Correct Answer)  
(C)  Only ductility test  
(D)  Both by penetration and viscosity test

**Question No.47**

Marks: 1.00  
Bookmark

Clear span, effective depth and support width of a simple supported beam are 2 m, 180 mm and 200 mm respectively. Calculate the effective span of the beam.

- (A)  2000 mm  
(B)  2200 mm (Chosen option)  
(C)  2180 mm (Correct Answer)  
(D)  2380 mm

**Question No.48**

Marks: 1.00  
Bookmark

For Reinforced Concrete Pipes, the longitudinal reinforcement is equals to \_\_\_\_\_ of the cross-sectional area of concrete and mix use of \_\_\_\_\_ ratio.

- (A)  0.25% , 1 : 2 : 4  
(B)  0.45% , 1 : 1.5 : 3  
(C)  0.65% , 1 : 3 : 6  
(D)  0.25% , 1 : 2 : 2 (Correct Answer)

**Question No.49**

Marks: 1.00  
Bookmark

When a bridge gets breaks due to tension, it is called:

- (A)  Decking  
(B)  Girder  
(C)  Snapping (Correct Answer)  
(D)  Buckling (Chosen option)

**Question No.50**

Marks: 1.00  
Bookmark

Which Chloramine is formed, when the pH range is less than 4.4?

- (A)  Monochloramine  
(B)  Dichloramine (Chosen option)  
(C)  Both Trichloramine and Dichloramine  
(D)  Trichloramine (Correct Answer)

**Question No.51**

Marks: 1.00  
Bookmark

The \_\_\_\_\_ is equal to the product of the force applied and radius of the shaft.

- (A)  moment
- (B)  resilience
- (C)  force
- (D)  **torsion (Correct Answer)** (Chosen option)

**Question No.52**

Marks: 1.00

**Bookmark**

When pipes are connected in series, then:

- (A)  Pressure will be low
- (B)  Discharge will be more
- (C)  Pressure will be medium
- (D)  **Discharge will be constant and pressure will be high (Correct Answer)** (Chosen option)

**Question No.53**

Marks: 1.00

**Bookmark**

Which one of the following formulas is NOT used for computing the Fire Demand?

- (A)  Buston's Formula
- (B)  Kuichling's Formula
- (C)  Freeman's Formula (Chosen option)
- (D)  **Hazen-Williams Formula (Correct Answer)**

**Question No.54**

Marks: 1.00

**Bookmark**

Which one of the following binding materials is used in the construction of Water Bound Macadam (WBM)?

- (A)  Coarse aggregates of size 53 to 22.4 mm
- (B)  **Fine grained material passing 0.425 mm sieve size (Correct Answer)** (Chosen option)
- (C)  Stone screening type of size 13.2 mm
- (D)  Stone screening type of size 12.5 mm

**Question No.55**

Marks: 1.00

**Bookmark**

A force of 100 N is acting at a point making an angle of  $30^\circ$  with the horizontal. Determine the components of this force along X and Y directions.

- (A)   $F_x = 50$  N and  $F_y = 86.6$  N
- (B)   $F_x = 96.6$  N and  $F_y = 40$  N
- (C)   **$F_x = 86.6$  N and  $F_y = 50$  N (Correct Answer)** (Chosen option)
- (D)   $F_x = 40$  N and  $F_y = 96.6$  N

**Question No.56**

Marks: 1.00

**Bookmark**

Which of the following tests is carried out to assess the strength of coarse aggregates in case of gradual compressive loading?

- (A)  Stripping value test
- (B)  **Crushing test (Correct Answer)** (Chosen option)
- (C)  Sound test
- (D)  Impact test



**Question No.57**Marks: 1.00  
Bookmark

As per IS ; 6512-1984 ice pressure applied to face of dam in  $\text{KN/m}^2$  is:

- (A)  350  
(B)  **250 (Correct Answer)**  
(C)  150  
(D)  540

**Question No.58**Marks: 1.00  
Bookmark

Maximum velocity condition in a flow-through circular channel section is:

- (A)   $H = 0.81d$   
Area of flow =  $R^2 / 2 (\theta - \sin 2\theta)$
- (B)   $H = 0.81d$   
Area of flow =  $R^2 / 2 (2 - \sin 2\theta)$
- (C)   $H = 0.81d$   
Area of flow =  $R^2 / 2 (2\theta - \sin 2\theta)$  **(Correct Answer)**
- (D)   $H = 0.81D$   
Area of flow =  $R^2 / 2 (2\theta - \sin \theta)$

**Question No.59**Marks: 1.00  
Bookmark

Which of the following stages of construction project consists of organising the project team?

- (A)  Construction scheduling  
(B)  Construction monitoring  
(C)  **Construction planning (Correct Answer) (Chosen option)**  
(D)  Construction controlling

**Question No.60**Marks: 1.00  
Bookmark

The type of flow in which the velocity is a function of time and three mutually perpendicular directions is known as:

- (A)  **Three dimensional flow (Correct Answer)**  
(B)  Two dimensional flow  
(C)  Rotational flow (Chosen option)  
(D)  One dimensional flow

**Question No.61**Marks: 1.00  
Bookmark

A stratified soil deposit consists of three layers. The permeabilities of the layers are  $8 \times 10^{-4}$ ,  $50 \times 10^{-4}$  and  $15 \times 10^{-4}$  cm/sec; the thickness of the layers are 6 m, 3 m and 12 m respectively. Then the average permeability of the deposit parallel to plane is:

- (A)   **$1.8 \times 10^{-3}$  cm/sec (Correct Answer)**  
(B)   $1.34 \times 10^{-3}$  cm/sec

(C)   $2.0 \times 10^{-3}$  cm/sec

(D)   $1.5 \times 10^{-3}$  cm/sec

**Question No.62**

Marks: 1.00

**Bookmark**

The tape which is commonly preferred for the works which need highest precision in measurement of base lines in triangulation is called \_\_\_\_\_ tape.

(A)  linen

(B)  metric steel

(C)  synthetic

(D)  **invar (Correct Answer)** (Chosen option)

**Question No.63**

Marks: 1.00

**Bookmark**

Which one of the following chemical compounds is present in Ordinary Portland Cement, which has highest heat of hydration?

(A)  Di-calcium Silicate

(B)  **Tri-calcium Aluminate (Correct Answer)**

(C)  Tri-calcium Silicate (Chosen option)

(D)  Tetra-calcium Aluminoferrite

**Question No.64**

Marks: 1.00

**Bookmark**

What is the expression for external load per unit length of flexible pipes buried in a narrow trench and thoroughly compacted side fills?

(A)   $P_t = 3.H^3.P/2\pi.Z^5$

(B)   $W = C.\gamma.B^2$

(C)   $W = C_p.\gamma.B^2$

(D)   **$W = C.\gamma.B.D$  (Correct Answer)**

**Question No.65**

Marks: 1.00

**Bookmark**

The height of collimation is generally used in \_\_\_\_\_

(A)  Reciprocal leveling

(B)  Check levelling

(C)  **Differential levelling (Correct Answer)**

(D)  Barometric levelling

**Question No.66**

Marks: 1.00

**Bookmark**

The elevation of plane of sight with respect to assumed datum is called:

(A)  Fore sight

(B)  **Height of instrument (Correct Answer)** (Chosen option)

(C)  Height of station

(D)  Back sight

**Question No.67**

Marks: 1.00

An arch resist the external load by which one of the following?

- (A)  normal thrust, radial shear and bending moment (Correct Answer)
- (B)  only bending moment
- (C)  only normal thrust (Chosen option)
- (D)  only radial shear

**Question No.68**

Marks: 1.00

Bookmark

Efficiency of Simple machine is the ratio of:

- (A)  Distance moved by effort to distance moved by load
- (B)  Output to effort (Chosen option)
- (C)  Output to input (Correct Answer)
- (D)  Load to effort

**Question No.69**

Marks: 1.00

Bookmark

All the stresses in both concrete and steel must be \_\_\_\_\_

- (A)  higher
- (B)  lower
- (C)  proportional to strain (Correct Answer) (Chosen option)
- (D)  equal to strain

**Question No.70**

Marks: 1.00

Bookmark

The specific energy for a 4 m wide channel is 5 Nm/N. Determine the maximum discharge.

- (A)  76 m<sup>3</sup>/sec
- (B)  70 m<sup>3</sup>/sec
- (C)  76.1 m<sup>2</sup>/sec
- (D)  76.13 m<sup>3</sup>/sec (Correct Answer)

**Question No.71**

Marks: 1.00

Bookmark

While submitting a tender; the contractor is required to deposit some amount with the department, as guarantee of the tender is called:

- (A)  Bank guarantee
- (B)  Security (Chosen option)
- (C)  Caution money
- (D)  Earnest money (Correct Answer)

**Question No.72**

Marks: 1.00

Bookmark

What is the minimum percentage of steel required in tension reinforcement in a beam where Fe415 steel is used?

- (A)  4% of gross area of beam (Chosen option)
- (B)  0.205% of gross area of beam
- (C)  0.205% of effective area of beam (Correct Answer)



(D)  0.34% of Gross area of beam

**Question No.73**

Marks: 1.00

**Bookmark**

The purpose of geological survey is:

- (A)  Determining points of strategic importance  
(B)  Unearthing relics of antiquity  
(C)  Exploring mineral wealth (Chosen option)  
(D)  **Determining different strata (Correct Answer)**

**Question No.74**

Marks: 1.00

**Bookmark**

The Coulomb's shear strength equation is given by:

- (A)   $C = s + c \tan \phi$   
(B)   $S = \tan \phi$   
(C)   $S = c + \tan \phi$   
(D)   $S = c + \sigma \tan \phi$  (Correct Answer) (Chosen option)

**Question No.75**

Marks: 1.00

**Bookmark**

What is creep coefficient for 28 days to load applied concrete?

- (A)  2.2  
(B)  1.1  
(C)  **1.6 (Correct Answer)**  
(D)  1 (Chosen option)

**Question No.76**

Marks: 1.00

**Bookmark**

What is the compression force of concrete if stress in the outer most compression fiber is taken as  $0.67f_{ck}$ ?

- (A)   $0.36f_{ck}Bx_u$  (Chosen option)  
(B)   **$0.54f_{ck}Bx_u$  (Correct Answer)**  
(C)   $0.23f_{ck}Bx_u$   
(D)   $0.67f_{ck}Bx_u$

**Question No.77**

Marks: 1.00

**Bookmark**

The discharge velocity of the soil sample having coefficient of permeability  $2.15 \times 10^{-3}$  cm/sec and unit hydraulic gradient is:

- (A)   **$2.15 \times 10^{-3}$  cm/sec (Correct Answer)** (Chosen option)  
(B)   $7.82 \times 10^{-3}$  cm/sec  
(C)   $10 \times 10^{-3}$  cm/sec

(D)   $5.30 \times 10^{-3}$  cm/sec

**Question No.78**

Marks: 1.00

Bookmark

In a fixed beam, temperature variation produces:

- (A)  No effect (Chosen option)  
(B)  Small stresses  
(C)  Zero stresses  
(D)  **Large stresses (Correct Answer)**

**Question No.79**

Marks: 1.00

Bookmark

Calculate the effective depth of beam required for effective span 6 m and width of the beam is 300 mm. The beam is subjected to live load of 30 KN/m and its self-weight is 6 KN/m. Use M25 concrete and steel Fe500. Use WSM.

- (A)  700 mm  
(B)  850 mm  
(C)  **800 mm (Correct Answer)**  
(D)  750 mm

**Question No.80**

Marks: 1.00

Bookmark

Vande Bharat Express runs on:

- (A)  Metre gauge  
(B)  Standard gauge  
(C)  **Broad gauge (Correct Answer)** (Chosen option)  
(D)  Narrow gauge

**Question No.81**

Marks: 1.00

Bookmark

As per IRC empirical formula, the length of transition curve for a given speed of 65 Km/h and radius of curve is 220 m is

- (A)  61.9 m  
(B)  41.9 m  
(C)  71.9 m  
(D)  **51.9 m (Correct Answer)**

**Question No.82**

Marks: 1.00

Bookmark

A steep channel which is inclined at 60 degrees to the horizontal carries flow at a depth of 0.8 m, the pressure at the bed of the channel is:

- (A)  7506 N/ m<sup>2</sup>  
(B)  3000 N/ m<sup>2</sup>  
(C)  **3924 N/ m<sup>2</sup> (Correct Answer)**  
(D)  8000 N/ m<sup>2</sup>

**Question No.83**

Marks: 1.00

Bookmark

Which one of the following is not the errors due to natural cause in the theodolite?

- (A)  Settlement of tripod due to soft soil
- (B)  Wind associated vibrations
- (C)  High temperature
- (D)  **Slip (Correct Answer) (Chosen option)**

**Question No.84**

Marks: 1.00

**Bookmark**

The stresses introduced by bending moment are known as:

- (A)  Compressive stress
- (B)  Bearing stress
- (C)  Tensile stress
- (D)  **Bending stress (Correct Answer) (Chosen option)**

**Question No.85**

Marks: 1.00

**Bookmark**

During the process of soil formation, soils transported by gravitational forces are termed as \_\_\_\_\_

- (A)  cumulose soils
- (B)  lacustrine (Chosen option)
- (C)  **colluvial soils (Correct Answer)**
- (D)  aeoline deposits

**Question No.86**

Marks: 1.00

**Bookmark**

Name the first city in India where the modern water supply system was constructed in the year 1870.

- (A)  Madhya Pradesh (Chosen option)
- (B)  Punjab
- (C)  Haryana
- (D)  **Calcutta (Correct Answer)**

**Question No.87**

Marks: 1.00

**Bookmark**

The following are the applications of Bernoulli's equation. Which one is cost efficient and performance efficient?

- (a) Orifice meter
  - (b) Venturimeter
  - (c) Pitot tube
  - (d) Attraction between two parallel moving boats
- (A)  b, c, d
  - (B)  **a, b (Correct Answer)**
  - (C)  a, b,c ,d
  - (D)  a, b, c

**Question No.88**

Marks: 1.00

**Bookmark**

Which one of the following instruments is better and accurate in measurement of right angles?

- (A)  Open cross staff



- (B)  Adjustable cross staff
- (C)  French cross staff
- (D)  **Optical square (Correct Answer)** (Chosen option)

**Question No.89**

Marks: 1.00

**Bookmark**

The Angus Smith's solution usually used for coating the cast iron pipes mainly consists of:

- (A)  44% asphalt and 1% resin
- (B)  **55% coaltar, 44% asphalt and 1% resin (Correct Answer)**
- (C)  35% coaltar and 1% resin.
- (D)  55% coaltar and 24% asphalt

**Question No.90**

Marks: 1.00

**Bookmark**

Side slope canals are arranged \_\_\_\_\_ to counters

- (A)  **at right angle (Correct Answer)**
- (B)  at 45° angle (Chosen option)
- (C)  at 65° angle
- (D)  Parallel

**Question No.91**

Marks: 1.00

**Bookmark**

The distance travelled by a moving vehicle during perception and brake reaction time is known as:

- (A)  Sight Distance
- (B)  Stopping Sight Distance
- (C)  Overtaking Sight Distance
- (D)  **Lag Distance (Correct Answer)** (Chosen option)

**Question No.92**

Marks: 1.00

**Bookmark**

At a control section of open channel flow, a fixed relationship exists between:

- (A)  width and discharge
- (B)  **depth and discharge (Correct Answer)** (Chosen option)
- (C)  width and velocity
- (D)  depth and velocity

**Question No.93**

Marks: 1.00

**Bookmark**

The time by which the starting or finishing of an activity can be delayed without affecting the succeeding, as well as preceding activities is called \_\_\_\_\_ float.

- (A)  total (Chosen option)
- (B)  free
- (C)  **independent (Correct Answer)**
- (D)  interfering

**Question No.94**

Marks: 1.00

Moment of the force about a point is the measure of \_\_\_\_\_ effect of the force.

- (A)  only linear
- (B)  **only rotational (Correct Answer)** (Chosen option)
- (C)  only circular
- (D)  both rotational and circular

**Question No.95**

Marks: 1.00

Bookmark

When the water surface coincides with the top edge of a rectangular vertical gate of 20 m wide and 3 m deep then the depth of the center of pressure is \_\_\_\_\_

- (A)  20 cm (Chosen option)
- (B)  200 cm
- (C)  20 m
- (D)  **2 m (Correct Answer)**

**Question No.96**

Marks: 1.00

Bookmark

The readings on staff which is held vertically 60 m from a tacheometer are 1.460 and 2.055. The line of sight is horizontal. If the focal length of objective lens is 20 cm and the distance from objective lens to the vertical axis is 13 cm, the additive constant is:

- (A)  0.13 m (Chosen option)
- (B)  0.20 m
- (C)  **0.33 m (Correct Answer)**
- (D)  0.07 m

**Question No.97**

Marks: 1.00

Bookmark

To hold hydraulic jumps, baffle walls are provided in:

- (A)  **Inglis type falls (Correct Answer)**
- (B)  Vertical type falls
- (C)  Montague type falls
- (D)  Sarda type falls (Chosen option)

**Question No.98**

Marks: 1.00

Bookmark

Which one of the following is a non-destructive test?

- (A)  **Ultrasonic pulse velocity test (Correct Answer)** (Chosen option)
- (B)  Flexural tensile strength test
- (C)  Split tensile strength test
- (D)  Compressive strength test

**Question No.99**

Marks: 1.00

Bookmark

If L/D aspect ratio =2.0, then Drag coefficient in circular rod parallel to flow is:

- (A)  **0.83 (Correct Answer)**
- (B)  1.10
- (C)  0.85
- (D)  1.15

**Question No.100**Marks: 1.00  
Bookmark

The point through which resultant of force gravity of the body acts is called \_\_\_\_\_

- (A)  moment of inertia
- (B)  radius of gyration
- (C)  centroid
- (D)  **centre of gravity (Correct Answer)** (Chosen option)

**Question No.101**Marks: 1.00  
Bookmark

The width of the metro gauge is:

- (A)  1600 mm
- (B)  1000 mm
- (C)  **1435 mm (Correct Answer)** (Chosen option)
- (D)  1700 mm

**Question No.102**Marks: 1.00  
Bookmark

If total float ( $F_T$ ) > 0 then that activity in CPM is called \_\_\_\_\_ activity.

- (A)  analytical (Chosen option)
- (B)  critical
- (C)  **sub – critical (Correct Answer)**
- (D)  dummy

**Question No.103**Marks: 1.00  
Bookmark

The total station is the one which is the combination of:

- (A)  Plane table and dumpy level
- (B)  Plane table and theodolite
- (C)  EDM and dumpy level
- (D)  **Electronic Theodolite and EDM (Correct Answer)** (Chosen option)

**Question No.104**Marks: 1.00  
Bookmark

What is the minimum clear cover requirement for RC walls?

- (A)  25 mm or bar dia whichever is greater
- (B)  **15 mm or bar dia whichever is greater (Correct Answer)**
- (C)  75 mm
- (D)  40 mm or bar dia whichever is greater (Chosen option)

**Question No.105**Marks: 1.00  
Bookmark

Total cost of construction in addition to cost of land is known as:

- (A)  Book Value
- (B)  Rateable value
- (C)  Market Value
- (D)  **Capital Cost (Correct Answer)** (Chosen option)

**Question No.106**

Marks: 1.00

**Bookmark**

Integral Coach Factory which was started in 1952 for the production of rail coaches is located in:

- (A)  **Chennai (Correct Answer)** (Chosen option)  
 (B)  Bombay  
 (C)  Gujrat  
 (D)  Varanasi

**Question No.107**

Marks: 1.00

**Bookmark**

\_\_\_\_\_ bricks per cubic meter are to be taken into account while doing the analysis of rate.

- (A)  **500 (Correct Answer)**  
 (B)  50  
 (C)  2000  
 (D)  1000 (Chosen option)

**Question No.108**

Marks: 1.00

**Bookmark**

The differential for energy in isentropic flow is of the form:

- (A)   $2v dv + dp/p = 0$   
 (B)   $dp + d(pv^2) = 0$   
 (C)   $dv/v + dA/A = 0$   
 (D)   **$v dv + dp/p = 0$  (Correct Answer)**

**Question No.109**

Marks: 1.00

**Bookmark**

Which Control chart shows fraction defective?

- (A)  V-chart  
 (B)  X-chart (Chosen option)  
 (C)  **P-chart (Correct Answer)**  
 (D)  C-chart

**Question No.110**

Marks: 1.00

**Bookmark**

Co-efficient of friction turbulent flow in smooth pipe is:

- (A)   $f = \frac{0.791}{Re}$   
 (B)   $f = \frac{0.781}{(Re)^{1/4}}$   
 (C)   $f = \frac{0.0791}{(Re)^{1/4}$  **(Correct Answer)** (Chosen option)  
 (D)   $f = \frac{0.891}{Re}$

**Question No.111**

Marks: 1.00

The natural void ratio of a sand sample is 0.54 and its density index is 0.6. If its void ratio in the loosest state is 0.85 then the void ratio in densest state is \_\_\_\_\_

- (A)  0.33 (Correct Answer)
- (B)  0.66
- (C)  0.37
- (D)  0.43

**Question No.112**

Marks: 1.00

Bookmark

A vehicle is moving on a two-lane highway with design speed of 80 kmph on a horizontal curve of radius 500 m. What is the required length of transition curve-based IRC empirical formula?

- (A)  34.56 m (Correct Answer)
- (B)  44.56 m
- (C)  64.56 m
- (D)  54.56 m

**Question No.113**

Marks: 1.00

Bookmark

A perfectly lined canal is a:

- (A)  Rigid boundary canal (Correct Answer) (Chosen option)
- (B)  Open canal
- (C)  Closed canal
- (D)  Mobile boundary canal

**Question No.114**

Marks: 1.00

Bookmark

If the width of the plate used in a plate load test is equal to ' $B_p$ ', then the size of the trench =

- (A)   $1.5B_p \times 3B_p$  (Chosen option)
- (B)   $5B_p \times 5B_p$  (Correct Answer)
- (C)   $5B_p \times 10B_p$
- (D)   $2.5B_p \times 5B_p$

**Question No.115**

Marks: 1.00

Bookmark

What is the depth of limiting neutral axis for beam having cross section  $200 \times 450$  mm and reinforcement of 4 -18 mm dia bars of Fe500? Effective cover will be 50 mm.

- (A)  192 mm (Chosen option)
- (B)  200 mm
- (C)  126 mm
- (D)  184 mm (Correct Answer)

**Question No.116**

Marks: 1.00

Bookmark

If the ratio of thickness to internal diameter is \_\_\_\_\_, then cylindrical shell is known as thick cylinders.

- (A)  less than 1/10



- (B)  less than 1/20  
(C)  more than 1/20 (Correct Answer)  
(D)  more than 1/10 (Chosen option)

**Question No.117**

Marks: 1.00

**Bookmark**

Who is the person known as the metro man in India?

- (A)  Elattuvalapil Sreedharan (Correct Answer)  
(B)  Ekdantaya Sreedharan  
(C)  Elilvendan Sreedharan  
(D)  Ellilarasanaya Sreedharan

**Question No.118**

Marks: 1.00

**Bookmark**

Elongation of a bar ( $\delta L$ ) due to its own weight is given by:

- (A)   $W/E$   
(B)   $WL/2E$  (Correct Answer) (Chosen option)  
(C)   $WL/2$   
(D)   $WE/L$

**Question No.119**

Marks: 1.00

**Bookmark**

What is the least requirement of velocity in sanitary sewers to prevent any deposition of sewage solids in sewers?

- (A)  100 cm/sec  
(B)  20 cm/sec  
(C)  60 cm/sec (Correct Answer) (Chosen option)  
(D)  30 cm/sec

**Question No.120**

Marks: 1.00

**Bookmark**

Ringe Imann's scale is used in which one of the following?

- (A)  grade automobile exhaust gas  
(B)  measure CO  
(C)  grade density of smoke (Correct Answer)  
(D)  measure  $SO_2$

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