



# JK Chrome

JK Chrome | Employment Portal



## Rated No.1 Job Application of India

Sarkari Naukri  
Private Jobs  
Employment News  
Study Material  
Notifications



JOBS



NOTIFICATIONS



G.K



STUDY MATERIAL



JK Chrome

jk chrome  
Contains ads



www.jkchrome.com | Email : contact@jkchrome.com

**Question No.1**

Marks: 1.00

**Bookmark**

The optimistic time, most likely time and pessimistic time estimates for an activity are 6 days, 7 days and 8 days respectively. The expected completion time of this given activity is:

- (A)  **7 days (Correct Answer)** (Chosen option)
- (B)  6 days
- (C)  9 days
- (D)  12 days

**Question No.2**

Marks: 1.00

**Bookmark**

A cantilever of length (l) carries a uniformly distributed load w N per unit length for the whole length. The shear force at the free end will be \_\_\_\_.

- (A)  **zero (Correct Answer)**
- (B)  w/2
- (C)  w/4
- (D)  wl (Chosen option)

**Question No.3**

Marks: 1.00

**Bookmark**

$P + \frac{1}{2} \rho V^2$  is called as \_\_\_\_\_

- (A)  Dynamic pressure (Chosen option)
- (B)  **Stagnation pressure (Correct Answer)**
- (C)  Static pressure
- (D)  Pressure

**Question No.4**

Marks: 1.00

**Bookmark**

As per MoRTH specification, the specified compaction requirement of highway subgrade is:

- (A)  90 percent (Chosen option)
- (B)  100 percent
- (C)  **95 percent (Correct Answer)**
- (D)  80 percent

**Question No.5**

Marks: 1.00

Which of the following is INCORRECT for the characteristics and quality of a good Trap?

- (A)  It should possess self-cleaning property
- (B)  **The internal and external surface should be Hard (Correct Answer)**  
(Chosen option)
- (C)  It should be made of some non-absorbent material
- (D)  It provide sufficient water seal with large surface area

**Question No.6**

Marks: 1.00

Bookmark

The normal duration and normal cost of activity are 24 days and Rs. 50,000 respectively. The activity crash duration is 22 days and the indirect cost is Rs. 1000 per day. If the cost slope is Rs. 1500 per day, then the total cost of activity after the crashing will be:

- (A)  Rs. 47,500
- (B)  Rs. 54,500
- (C)  **Rs. 51,000 (Correct Answer)** (Chosen option)
- (D)  Rs. 45,500

**Question No.7**

Marks: 1.00

Bookmark

The study of a body in motion, when the forces which cause the motion are NOT considered is called:

- (A)  Torque
- (B)  **Kinematics (Correct Answer)** (Chosen option)
- (C)  Kinetics
- (D)  Statics

**Question No.8**

Marks: 1.00

Bookmark

AOA and AON are:

- (A)  **Network Techniques (Correct Answer)** (Chosen option)
- (B)  Quality measurement techniques
- (C)  Safety assessment techniques
- (D)  Cost estimation techniques

**Question No.9**

Marks: 1.00

Bookmark

Lacey's silt theory is not applicable when:

- (A)  **The canal is lined (Correct Answer)**
- (B)  Silt amount is of the order 500 ppm
- (C)  Silt grade consists of pure sand
- (D)  Discharge is constant (Chosen option)

**Question No.10**

Marks: 1.00

Bookmark

In flat collar bearing, why is the number of collars provided to carry a fixed axial load?

- (A)  To increase intensity of pressure
- (B)  To increase frictional torque
- (C)  **To decrease intensity of pressure (Correct Answer)**

(D)  To decrease frictional torque

**Question No.11**

Marks: 1.00

**Bookmark**

Which of the following is NOT a type of contract?

- (A)  **Open tender (Correct Answer)** (Chosen option)
- (B)  Item rate contract
- (C)  Lump-sum contract
- (D)  BOT

**Question No.12**

Marks: 1.00

**Bookmark**

The expression used to calculate water hammer pressure  $p_w$  is:

- (A)   **$V \cdot E_w / E_s$  (Correct Answer)**
- (B)   $CD \cdot \rho \cdot v^2 / 2$  (Chosen option)
- (C)   $N_0 e^{-kt}$
- (D)   $(fLU^2) / (2gd)$

**Question No.13**

Marks: 1.00

**Bookmark**

Which of the following has largest dimension of a rail?

- (A)  **Height (Correct Answer)** (Chosen option)
- (B)  Foot width
- (C)  Cross-section width
- (D)  Head width

**Question No.14**

Marks: 1.00

**Bookmark**

How much track is covered by B.G in India?

- (A)  **More than 90% (Correct Answer)**
- (B)  85 to 90 %
- (C)  70 - 80 %
- (D)  50-60% (Chosen option)

**Question No.15**

Marks: 1.00

**Bookmark**

Shear stress at the centre of beam is:

- (A)  Dependent on concrete grade
- (B)  Theoretically zero but practically not
- (C)  Non-zero (Chosen option)
- (D)  **Practically zero (Correct Answer)**

**Question No.16**

Marks: 1.00

**Bookmark**

As Error increases, aspect ratio:

- (A)  L increases (Chosen option)
- (B)  L/D increases
- (C)  D decreases

(D)  L/D decreases (Correct Answer)

**Question No.17**

Marks: 1.00

**Bookmark**

According to the boundary layer theory, the flow of fluid in the neighbourhood of the solid boundary may be divided into \_\_\_\_\_

- (A)  one
- (B)  two (Correct Answer)
- (C)  three (Chosen option)
- (D)  four

**Question No.18**

Marks: 1.00

**Bookmark**

The torsional reinforcement required when both the meeting edges of slab are continuous is:

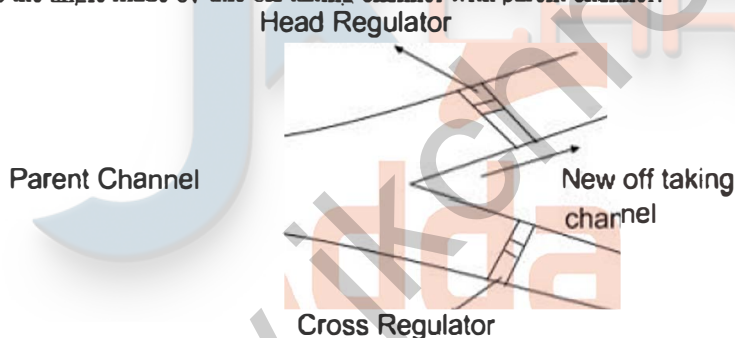
- (A)  No reinforcement is required (Correct Answer) (Chosen option)
- (B)  Same as area of flexural steel required
- (C)  0.375 times of flexural steel required
- (D)  0.75 times of area of flexural steel required

**Question No.19**

Marks: 1.00

**Bookmark**

What is the angle made by this off taking channel with parent channel?



- (A)  Zero degrees (Correct Answer)
- (B)  60 degrees
- (C)  30 degrees
- (D)  15 degrees (Chosen option)

**Question No.20**

Marks: 1.00

**Bookmark**

Reynolds number is applicable to:

- (A)  Laminar flow and Linear flow (Chosen option)
- (B)  Creeping flow and Turbulent flow
- (C)  Creeping flow (Correct Answer)
- (D)  Linear flow and Creeping flow

**Question No.21**

Marks: 1.00

**Bookmark**

Which among the following claims about the ultrasonic test is/are right?

- (A)  The created waves are detrimental to one's health.
- (B)  Complex shapes can be detected quickly.
- (C)  **Ultrasonic testing equipment is lightweight and portable. (Correct Answer)**
- (D)  The created waves are detrimental to one's health, and intricate shapes may be easily scanned. (Chosen option)

**Question No.22**

Marks: 1.00  
**Bookmark**

$\Psi$  Exists for

- (A)  **rotational flow (Correct Answer) (Chosen option)**
- (B)  trapezoidal flow
- (C)  rectangular flow
- (D)  circular flow

**Question No.23**

Marks: 1.00  
**Bookmark**

If L is the length measured along the curve from the tangent point and R is the radius of curvature at the point as per the fundamental requirement of a transition curve the relation between these two is:

- (A)   $L = 2R$
- (B)   $R/L = \text{constant}$
- (C)   **$LR = \text{constant}$  (Correct Answer)**
- (D)   $L/R = \text{constant}$  (Chosen option)

**Question No.24**

Marks: 1.00  
**Bookmark**

Which of following contracts has contractor and government's share as 60% and 40% of total project's cost respectively?

- (A)  **HAM contract (Correct Answer)**
- (B)  BOT contract
- (C)  EPC contract
- (D)  Item rate contract

**Question No.25**

Marks: 1.00  
**Bookmark**

Which type of soil is benefited by using tile drainage?

- (A)  Dry Soils (Chosen option)
- (B)  Black Soils
- (C)  Red Soils
- (D)  **Wet Soils (Correct Answer)**

**Question No.26**

Marks: 1.00  
**Bookmark**

The point of contraflexure definitely occurs in \_\_\_\_\_ beams.

- (A)  continuous
- (B)  **overhanging (Correct Answer) (Chosen option)**
- (C)  simply supported

(D)  cantilever

**Question No.27**

Marks: 1.00

**Bookmark**

The odour of the water or the waste-water can be measured by a term called:

- (A)  Turbidity
- (B)  **Threshold Odour Number (Correct Answer) (Chosen option)**
- (C)  B.O.D
- (D)  C.O.D

**Question No.28**

Marks: 1.00

**Bookmark**

Which instrument moves at same speed in extension and retracting operation?

- (A)  **Piston (Correct Answer)**
- (B)  Chamber
- (C)  Suction
- (D)  Shaft (Chosen option)

**Question No.29**

Marks: 1.00

**Bookmark**

The principle involved in movable hair tacheometry is:

- (A)  Trigonometry is used for measurement of distance.
- (B)  **By moving the stadia wires a constant intercept on the staff can be obtained. (Correct Answer)**
- (C)  Distance can be estimated by measuring two vertical angles.
- (D)  Distance is proportional to the intercepts on a stadia rod. (Chosen option)

**Question No.30**

Marks: 1.00

**Bookmark**

What is the acceptable outdoor noise level for industrial areas, as per the IS-code 4954-1968?

- (A)  **50-60 dBA (Correct Answer) (Chosen option)**
- (B)  40-50 dBA
- (C)  35-45 dBA
- (D)  25-35 dBA

**Question No.31**

Marks: 1.00

**Bookmark**

The primary system of road classification includes:

- (A)  **Expressways and National Highways (Correct Answer) (Chosen option)**
- (B)  Village roads and Other District Roads
- (C)  Other District Roads and Village Roads
- (D)  State Highways and Major District Roads

**Question No.32**

Marks: 1.00

**Bookmark**

Identify the CORRECT statement about Simply Supported beam.

- (A)  BM – Max at supports, SF – Zero at supports
- (B)  BM – Zero at supports, SF – Zero at supports

(C)  BM – Max at supports, SF – Max at supports

(D)  **BM – Zero at supports, SF – Max at supports (Correct Answer)** (Chosen option)

**Question No.33**

Marks: 1.00

**Bookmark**

Which is the most preferable alignment of the bridge?

(A)  Parabola (Chosen option)

(B)  **Square (Correct Answer)**

(C)  Skew

(D)  Curved

**Question No.34**

Marks: 1.00

**Bookmark**

The length of a line measured with a 30 m chain is 800.64 m. Afterwards it is found that the chain is 0.05 m too long. The true length of the line is:

(A)  801.976 m (Chosen option)

(B)  799.305 m

(C)  **801.974 m (Correct Answer)**

(D)  799.307 m

**Question No.35**

Marks: 1.00

**Bookmark**

The possibility of formation of voids in concrete can be reduced by using water-cement ratio as:

(A)  Steady

(B)  Maximum

(C)  Uniform (Chosen option)

(D)  **Minimum (Correct Answer)**

**Question No.36**

Marks: 1.00

**Bookmark**

As per IS code, calculate the negative moment coefficient in the case of the two-way slab, if the positive moment coefficient is 0.3.

(A)  **0.55 (Correct Answer)**

(B)  0.35

(C)  0.45

(D)  0.65

**Question No.37**

Marks: 1.00

**Bookmark**

In compression, as per IS 456:2000, the average bond stress in the reinforcing bar should be increased by \_\_\_\_\_%.

(A)  20

(B)  40

(C)  60

(D)  **25 (Correct Answer)** (Chosen option)

**Question No.38**

Marks: 1.00



Flow formula for open channel (Chezei's formula)  $V=C\sqrt{Ri}$ , where Chezy's coefficient  $C$  is given by which formula?

- (A)  Manning's Formula  
 (B)  Darcy's Formula (Chosen option)  
 (C)  Hazens William's formula  
 (D)  Kutter's formula (Correct Answer)

**Question No.39**

Marks: 1.00

Bookmark

If the liquid limit and plastic limit of the soil sample is 58% and 28% respectively then its plasticity index is \_\_\_\_\_.

- (A)  33.5%  
 (B)  47.5%  
 (C)  30% (Correct Answer) (Chosen option)  
 (D)  20%

**Question No.40**

Marks: 1.00

Bookmark

Find the compaction factor of concrete using the following data:

Weight of empty cylinder ( $W_1$ ) = 10 Kg

Weight of empty cylinder + Weight of free fall concrete ( $W_2$ ) = 15 Kg

Weight of empty cylinder + Weight of hand compacted concrete ( $W_3$ ) = 17 Kg

- (A)  0.78  
 (B)  0.81  
 (C)  0.71 (Correct Answer) (Chosen option)  
 (D)  0.68

**Question No.41**

Marks: 1.00

Bookmark

Verify whether the following functions are valid potential functions.

(i)  $\phi = A(X^2 - Y^2)$

(ii)  $\phi = A \cos x$

- (A)  Both are valid potential functions  
 (B)  Both are not valid potential functions (Chosen option)  
 (C)  (i) Is not a valid function (ii) Is a valid potential function  
 (D)  (i) Is a valid potential function (ii) Not a valid function (Correct Answer)

**Question No.42**

Marks: 1.00

Bookmark

Difference in elevation between two successive contour lines is called:

- (A)  Horizontal equivalent  
 (B)  Contour interval (Correct Answer) (Chosen option)  
 (C)  Contour map  
 (D)  Contour line

**Question No.43**

Marks: 1.00

Bookmark

The bitumen emulsion is classified as:

- (A)  Medium curing
- (B)  Rapid curing
- (C)  Slow curing
- (D)  **Anionic and cationic (Correct Answer)** (Chosen option)

**Question No.44**

Marks: 1.00

**Bookmark**

The period after which the entire area will start contributing to run-off is called the

- (A)  **time of concentration (Correct Answer)** (Chosen option)
- (B)  gutter flow time
- (C)  dispersion factor
- (D)  time of equilibrium

**Question No.45**

Marks: 1.00

**Bookmark**

Design the rate of superelevation for horizontal curve of radius 400 m for a mixed traffic condition, having a speed of 80 Kmph.

- (A)  0.05
- (B)  **0.07 (Correct Answer)** (Chosen option)
- (C)  1
- (D)  0.08

**Question No.46**

Marks: 1.00

**Bookmark**

Which of the following structures is temporary for bridge construction?

- (A)  Cables
- (B)  **Cofferdam (Correct Answer)**
- (C)  Deck
- (D)  Soffit (Chosen option)

**Question No.47**

Marks: 1.00

**Bookmark**

The drainage water is sometimes allowed to join the canal water to augment canal supplies through a hydraulic structure called:

- (A)  **Canal inlet (Correct Answer)** (Chosen option)
- (B)  Canal outlet
- (C)  Module
- (D)  Level crossings

**Question No.48**

Marks: 1.00

**Bookmark**

If  $B$  = thickness of aquifer,  $K$  = coefficient of permeability then coefficient of transmissibility ( $T$ ) is given as:

- (A)   $T = B/K$
- (B)   $T = K/B$
- (C)   **$T = B.K$  (Correct Answer)** (Chosen option)
- (D)   $T = 2B/K$

**Question No.49**

Marks: 1.00

**Bookmark**

One-way slabs are supported by \_\_\_\_\_ across the entire width.

- (A)  **bearing walls (Correct Answer)**
- (B)  column
- (C)  footing
- (D)  props (Chosen option)

**Question No.50**

Marks: 1.00

**Bookmark**

Shear strength of RCC beam can be increased by providing:

- (A)  flaky aggregates
- (B)  **stirrups (Correct Answer)** (Chosen option)
- (C)  Compression reinforcements
- (D)  TMT bars

**Question No.51**

Marks: 1.00

**Bookmark**

The constant head permeability test is most suitable for \_\_\_\_\_ type of soil.

- (A)  organic
- (B)  clayey
- (C)  silty
- (D)  **coarse grained (Correct Answer)** (Chosen option)

**Question No.52**

Marks: 1.00

**Bookmark**

The ratio of the rate of change of discharge of an outlet and parent channel is known as \_\_\_\_\_

- (A)  efficiency
- (B)  **flexibility (Correct Answer)** (Chosen option)
- (C)  modular limit
- (D)  sensitivity

**Question No.53**

Marks: 1.00

**Bookmark**

A contour map which has higher elevations inside is the example of:

- (A)  Valley
- (B)  **Hillock (Correct Answer)** (Chosen option)
- (C)  Steep slope
- (D)  Pond

**Question No.54**

Marks: 1.00

**Bookmark**

In which year coagulation of water with sulphate of alumina was adapted practically?

- (A)  **1881 (Correct Answer)**
- (B)  1854
- (C)  1830
- (D)

(D) 1876 (Chosen option)

**Question No.55**

Marks: 1.00

**Bookmark**

The minimum width of the narrow gauge is:

- (A)  900 mm
- (B)  **610 mm (Correct Answer)** (Chosen option)
- (C)  700 mm
- (D)  800 mm

**Question No.56**

Marks: 1.00

**Bookmark**

Component of the bridge above the level of bearing is known as:

- (A)  Adjoining structure
- (B)  **Superstructure (Correct Answer)** (Chosen option)
- (C)  Masonry structure
- (D)  Sub-structure

**Question No.57**

Marks: 1.00

**Bookmark**

Measurement of steel grills is done in terms of:

- (A)  Volume
- (B)  Area (Chosen option)
- (C)  **Weight (Correct Answer)**
- (D)  Length

**Question No.58**

Marks: 1.00

**Bookmark**

A binding legal agreement is a mutual arrangement between two or more persons that is enforceable by law is called \_\_\_\_\_

- (A)  mutual fund
- (B)  loan
- (C)  **contract (Correct Answer)** (Chosen option)
- (D)  job

**Question No.59**

Marks: 1.00

**Bookmark**

Which of the following cash books has only one account that is a cash account?

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

**Question No.60**

Marks: 1.00

**Bookmark**

Find the ruling minimum radius of horizontal curve for a design speed of 80 Kmph. (assuming  $e=0.07$  and  $f=0.15$ )

- (A)  **229 m (Correct Answer)** (Chosen option)
- (B)  339 m

- (C)  250 m  
(D)  439 m

**Question No.61**

Marks: 1.00  
Bookmark

The equation for the determination of compression index for the remoulded soil (For distributed low to medium sensitive soil) is given by:

- (A)   (Correct Answer) (Chosen option)  
(B)   $C_c = 0.007(w_L - 20\%)$   
(C)   $C_c = 0.009(w_L - 10\%)$   
(D)   $C_c = 0.007(w_L - 30\%)$

**Question No.62**

Marks: 1.00  
Bookmark

For a static equilibrium in a space structure, the number of independent equations to be satisfied is:

- (A)  6 (Correct Answer) (Chosen option)  
(B)  3  
(C)  2  
(D)  4

**Question No.63**

Marks: 1.00  
Bookmark

The ratio of increase in length to the original length is known as:

- (A)  Compressive strain  
(B)  Tensile strain (Correct Answer) (Chosen option)  
(C)  Tensile stress  
(D)  Compressive stress

**Question No.64**

Marks: 1.00  
Bookmark

What is the size of "Soil Pipe and Vent Pipe" commonly adopted for house drains in average conditions?

- (A)  100 mm, 50 mm (Correct Answer)  
(B)  210 mm, 75 mm  
(C)  70 mm, 32 mm (Chosen option)  
(D)  400 mm, 20 mm

**Question No.65**

Marks: 1.00  
Bookmark

The whole circle bearing of a line measured is  $135^\circ$ . The reduced bearing of line is:

- (A)   $45^\circ$  NE  
(B)   $135^\circ$  SE

(C)  **45° SE (Correct Answer)** (Chosen option)

(D)  135° NE

**Question No.66**

Marks: 1.00

Bookmark

Choose the INCORRECT statement.

(A)  **Nominal mix considers the properties of different materials used. (Correct Answer)**

(B)  Concrete is a brittle material.

(C)  Design mix is used for M25 and above concrete grades. (Chosen option)

(D)  Aggregates are inactive materials that increase the volume of concrete.

**Question No.67**

Marks: 1.00

Bookmark

Line joining equal rain fall readings on map is called \_\_\_\_\_

(A)  isosceles

(B)  **isohyetal (Correct Answer)** (Chosen option)

(C)  isochrones

(D)  isobar

**Question No.68**

Marks: 1.00

Bookmark

What is the usual height of the bridge above the high flood level (HFL)?

(A)  4.5 to 6 m

(B)  6 to 7 m (Chosen option)

(C)  3 to 3.3 m

(D)  **1.2 to 1.5 m (Correct Answer)**

**Question No.69**

Marks: 1.00

Bookmark

What is the magnetic declination if the sum of the magnetic bearing at a place at known in southern hemisphere is  $167^\circ$ ?

(A)   $23^\circ$  S

(B)   **$13^\circ$  E (Correct Answer)** (Chosen option)

(C)   $77^\circ$  N

(D)   $13^\circ$  W

**Question No.70**

Marks: 1.00

Bookmark

A two-lane highway with design speed of 80 kmph has horizontal curve of radius 460 m. What is the rate of superelevation considering mixed traffic condition or 75% of design speed?

(A)  0.05

(B)  0.04

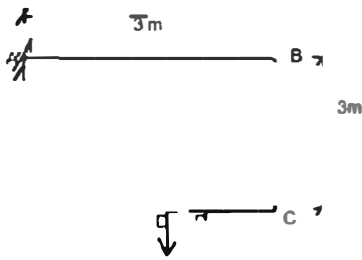
(C)  **0.06 (Correct Answer)** (Chosen option)

(D)  0.03

**Question No.71**

Marks: 1.00

Find the deflection at D.



- (A)  40mm  
 (B)  4mm  
 (C)  4.4mm  
 (D)  44mm (Correct Answer)

**Question No.72**

Marks: 1.00

Bookmark

The type of soil sample collected using wash boring technique is \_\_\_\_\_

- (A)  representative (Chosen option)  
 (B)  zero-representative  
 (C)  undisturbed (Correct Answer)  
 (D)  zero disturbed

**Question No.73**

Marks: 1.00

Bookmark

In setting up of plane table at a point P, the corresponding point on the plan was not accurately centered above the point P. If the displacement of P was 20 cm in a direction at right angles to the ray, how much on the plan would be the consequent displacement of a point from its true position, if scale is 1 cm = 100 m?

- (A)  0.002 mm (Chosen option)  
 (B)  2 mm  
 (C)  0.2 mm  
 (D)  0.02 mm (Correct Answer)

**Question No.74**

Marks: 1.00

Bookmark

Navier – Stokes equation applies to:

- (A)  Laminar flow between concentric rotating cylinders  
 (B)  Laminar flow in pipe (Correct Answer) (Chosen option)  
 (C)  Laminar flow in spherical pipe  
 (D)  Laminar directional flow between stationary parallel plates

**Question No.75**

Marks: 1.00

Bookmark

A bar is subjected to a uniform tensile stress of 100 N/mm<sup>2</sup>. Find the intensity of normal stress on a plane the normal to which is inclined 30° to the axis of the bar:

- (A)  100 N/mm<sup>2</sup>

- (B)  80 N/mm<sup>2</sup>  
(C)  60 N/mm<sup>2</sup>  
(D)  75 N/mm<sup>2</sup> (Correct Answer) (Chosen option)

**Question No.76**

Marks: 1.00  
Bookmark

A narrow track is made along the alignment of the hill road to enable access for inspection, collection of data called:

- (A)  Trace cut (Correct Answer) (Chosen option)  
(B)  Open cut  
(C)  Open tunnel  
(D)  Close Conduit

**Question No.77**

Marks: 1.00  
Bookmark

The dilatancy correction to the standard penetration number is given by:

- (A)   $N_c = 15 + \frac{1}{2}(N_R - 15)$  (Correct Answer) (Chosen option)  
(B)   $N_c = 15 - \frac{1}{2}(15 - N_R)$   
(C)   $N_c = 15 - \frac{1}{2}(N_R - 15)$   
(D)   $N_c = 25 - \frac{1}{2}(15 - N_R)$

**Question No.78**

Marks: 1.00  
Bookmark

R-charts are used for:

- (A)  Variables (Correct Answer)  
(B)  Reliability (Chosen option)  
(C)  Maintainability  
(D)  Attributes

**Question No.79**

Marks: 1.00  
Bookmark

Dimension of specific heat is:

- (A)   $L^2t^{-2}T^1$   
(B)   $L^2t^{-2}T^{-1}$  (Correct Answer)  
(C)   $L^2t^{-2}T^3$   
(D)   $L^{-2}t^2T^1$

**Question No.80**

Marks: 1.00  
Bookmark

The resultant stress on an oblique plane at an angle  $\theta$  to the cross section of a body which is subjected to a direct tensile stress is:

- (A)   $\sigma \cos^2\theta$



- (B)   $\sigma \cos \theta$  (Correct Answer)  
(C)   $\sigma \cos 2\theta$  (Chosen option)  
(D)   $\cos^2\theta$

**Question No.81**

Marks: 1.00

Bookmark

Which one of the following operations is not done by the theodolite?

- (A)  **Measuring only horizontal angles** (Correct Answer) (Chosen option)  
(B)  Setting line between given lines  
(C)  Prolonging a line  
(D)  Finding intersection of points

**Question No.82**

Marks: 1.00

Bookmark

For steady laminar flow through a conical pipe, determine expression for pressure loss across it.

- (A)   $\frac{128\mu Q}{3\pi(D_1 - D_2)}$  (Chosen option)  
(B)   $\frac{128\mu Q}{3\pi(D_1 + D_2)} \left[ \frac{1}{D_2^5} \right]$   
(C)   $\frac{128\mu Q}{3\pi(D_1 - D_2)} \left[ \frac{1}{D_2^5} \right]$   
(D)  **Correct Answer**

**Question No.83**

Marks: 1.00

Bookmark

If the thickness of the wall of the cylindrical vessel is less than \_\_\_\_\_ of its internal diameter, the cylindrical vessel is known as a thin cylinder.

- (A)  1/4  
(B)  1/10 (Chosen option)  
(C)  1/15  
(D)  **1/20** (Correct Answer)

**Question No.84**

Marks: 1.00

Bookmark

The rate of rise or fall along the length of road with respect to the horizontal is called:

- (A)  Superelevation  
(B)  **Gradient** (Correct Answer) (Chosen option)  
(C)  Camber  
(D)  Grade compensation

**Question No.85**

Marks: 1.00

Bookmark

Which of the following organization structures requires high degree of specialization?

- (A)  Harmony structure  
(B)  **Functional structure** (Correct Answer) (Chosen option)  
(C)  Coordinated structure  
(D)  Divisional structure

**Question No.86**

Marks: 1.00

**Bookmark**

As per Indian standards, the height and mass of the rammer used in core cutter test is \_\_\_\_\_ and \_\_\_\_\_ respectively.

- (A)  2.5 kg, 310 mm (Chosen option)  
(B)  9 kg, 900 mm (Correct Answer)  
(C)  7.5 kg, 510 mm  
(D)  4.89 kg, 450 mm

**Question No.87**

Marks: 1.00

**Bookmark**

The base width of a solid gravity dam is 35 m and the specific gravity of dam material is 2.45. What is the approximate allowable height of the dam having an elementary profile without considering the uplift?


- (A)  54.80 m (Correct Answer)  
(B)  64.68 m  
(C)  80 m  
(D)  164 m

**Question No.88**

Marks: 1.00

**Bookmark**

The sudden contraction loss in  $C_c$  is given by \_\_\_\_\_

- (A)    
(B)   (Correct Answer) (Chosen option)  
(C)    
(D)  

**Question No.89**

Marks: 1.00

**Bookmark**

Which of the following is the first metro system of India?

- (A)  Mumbai metro  
(B)  Chennai metro  
(C)  Delhi metro  
(D)  Kolkata metro (Correct Answer) (Chosen option)

**Question No.90**

Marks: 1.00

**Bookmark**

The type of road pattern adopted by city roads of Chandigarh is:

- (A)  Radial or star and block pattern  
(B)  Rectangle or block pattern (Correct Answer) (Chosen option)  
(C)  Hexagonal pattern  
(D)  Radial or star and grid pattern

**Question No.91**

Marks: 1.00

**Bookmark**

If  $N$  is the number sides of the traverse, the sum of measured interior angles should be equal to:

- (A)   $(2N-4)$  right angles (Correct Answer) (Chosen option)

- (B)  (2N-2) right angles
- (C)  (2N-6) right angles
- (D)  (2N-8) right angles

**Question No.92**

Marks: 1.00

**Bookmark**

The protoplasm of most living cells contains \_\_\_\_\_ of water.

- (A)  40%
- (B)  30%
- (C)  50%
- (D)  **80% (Correct Answer)**

**Question No.93**

Marks: 1.00

**Bookmark**

Select the INCORRECT statement.

- (A)  Pre-stress loss due to elastic shortening of concrete is  $m \times f_c$ .
- (B)  The decrease in stress in steel at a constant strain is called relaxation in steel.
- (C)  A cracked pre-stressed concrete beam behaves as a reinforced cement concrete beam.
- (D)  **The minimum concrete grade for pre-tensioning and post-tensioning is M30. (Correct Answer)** (Chosen option)

**Question No.94**

Marks: 1.00

**Bookmark**

Controlling and planning are:

- (A)  **Interdependent and interrelated (Correct Answer)** (Chosen option)
- (B)  Interrelated
- (C)  Interdependent
- (D)  Interesting

**Question No.95**

Marks: 1.00

**Bookmark**

Shear Stress induced in a shaft varies:

- (A)  **Linearly with zero at the centre to maximum at extreme fibre of the shaft (Correct Answer)** (Chosen option)
- (B)  Linearly with maximum at the centre to Zero at extreme fibre of the shaft
- (C)  Non-linear with zero at centre and max at the extreme fibre
- (D)  Linear with non-zero at centre and max at the extreme fibre

**Question No.96**

Marks: 1.00

**Bookmark**

Froude model law is based on:

- (A)  Weber number
- (B)  Reynold's number
- (C)  Euler number
- (D)  **Froude number (Correct Answer)** (Chosen option)

**Question No.97**

Marks: 1.00

As per IS 456:2000, the equivalent shear in torsion can be calculated as:

- (A)   $V_e = B + 1.6 \times (T/V)$   
(B)   $V_e = T + 1.6 \times (V/B)$   
(C)   $V_e = V + 1.6 \times (T/B)$  (Correct Answer) (Chosen option)  
(D)   $V_e = V + 1.8 \times (T/B)$

**Question No.98**

Marks: 1.00

Bookmark

In the bending stress equation  $M/I = f/y = E/R$ , which of the following is INCORRECT?

- (A)  M represents bending moment  
(B)  y represents the total depth of the section (Correct Answer) (Chosen option)  
(C)  f represents bending stress  
(D)  1/R represents radius of curvature

**Question No.99**

Marks: 1.00

Bookmark

Capitalized value of property is the product of:

- (A)  Annual income and interest  
(B)  Annual income and sinking fund  
(C)  Annual income and annuity  
(D)  Annual income and year's purchase (Correct Answer) (Chosen option)

**Question No.100**

Marks: 1.00

Bookmark

Determine ultimate BOD for sewage having 5-day BOD at 20°C as 180 ppm. Assume the de-oxygenation constant as 0.8 per day.

- (A)   $L_0 = 195$  mg/l  
(B)   $L_0 = 180$  ppm (Correct Answer)  
(C)   $L_0 = 220$  ppm (Chosen option)  
(D)   $L_0 = 200$  mg/l

**Question No.101**

Marks: 1.00

Bookmark

The time related to minimum total project cost is:

- (A)  Normal time  
(B)  Crash time  
(C)  Optimistic time (Chosen option)  
(D)  Between normal time and crash time (Correct Answer)

**Question No.102**

Marks: 1.00

Bookmark

The water content corresponding to maximum dry density is called

- (A)  Zero air void  
(B)  Optimum water content (Correct Answer) (Chosen option)  
(C)  Moisture content

(D)  Critical water content

**Question No.103**

Marks: 1.00

**Bookmark**

If a foundation of size 18 m x 36 m, exerts a uniform pressure of  $180 \text{ kN/mm}^2$  on the soil mass with E value as  $45 \text{ MN/m}^2$ , Influence value 1, Poisson's ratio 0.5, then the immediate settlement is:

- (A)  120 mm
- (B)  **54 mm (Correct Answer)**
- (C)  28 mm
- (D)  220 mm

**Question No.104**

Marks: 1.00

**Bookmark**

The ratio of change of volume of body to the original volume is known as \_\_\_\_\_

- (A)  **volumetric strain (Correct Answer)** (Chosen option)
- (B)  strain
- (C)  elastic strain
- (D)  stress

**Question No.105**

Marks: 1.00

**Bookmark**

The Reynold number is less than 0.2, then flow pattern is:

- (A)  **Symmetrical (Correct Answer)**
- (B)  Nearly different
- (C)  Reduce (Chosen option)
- (D)  Unsymmetrical

**Question No.106**

Marks: 1.00

**Bookmark**

What characteristic strength of concrete is taken in limit state method?

- (A)  **0.67 fck (Correct Answer)**
- (B)  0.36fck
- (C)  0.22fck
- (D)  0.45fck (Chosen option)

**Question No.107**

Marks: 1.00

**Bookmark**

The cost associated with defective products produced is called:

- (A)  Cost of scrap (Chosen option)
- (B)  Cost of appraisal
- (C)  **Internal and external failure cost (Correct Answer)**
- (D)  Cost of prevention

**Question No.108**

Marks: 1.00

**Bookmark**

Terzaghi's ultimate bearing capacity equation for circular footing is given by:

- (A)   $q_{ult} = 1.3CN_c + \gamma DN_q + 0.5 \gamma BN_\gamma$

(B)   $q_{ult} = CN_c + \gamma DN_q + 0.5 \gamma BN_v$

(C)   $q_{ult} = 1.3CN_c + \gamma DN_q + 0.4 \gamma BN_v$

(D)   $q_{ult} = 1.3CN_c + \gamma DN_q + 0.3 \gamma BN_v$  (Correct Answer) (Chosen option)

**Question No.109**

Marks: 1.00

Bookmark

The chart which is used to monitor the variable is:

(A)  P-chart

(B)  Range chart (Correct Answer)

(C)  C-chart

(D)  Q-chart

**Question No.110**

Marks: 1.00

Bookmark

\_\_\_\_\_ cable properly counter balances the uniformly distributed load (UDL).

(A)  Parabolic (Correct Answer) (Chosen option)

(B)  Elliptic

(C)  Concentric

(D)  Eccentric

**Question No.111**

Marks: 1.00

Bookmark

Coefficient of friction  $\mu$  is the ratio of:

(A)  Resultant and normal reaction

(B)  Applied Force and Normal Reaction

(C)  Frictional Force and Resultant

(D)  Frictional Force and Normal Reaction (Correct Answer) (Chosen option)

**Question No.112**

Marks: 1.00

Bookmark

What is the name given to the drains used in depressions?

(A)  Shallow Surface Drains (Correct Answer)

(B)  Deep Surface Drains (Chosen option)

(C)  Drains

(D)  Open Drains

**Question No.113**

Marks: 1.00

Bookmark

According to von -karman equation quantity of hydrodynamic force (P) acting on dam is:

(A)   $P = 0.555 Kh Y_w H^2$  (Correct Answer)

(B)   $P = 0.655 Kh Y_w H^2$

(C)   $P = 0.75 Kh Y_w H^2$

(D)   $P = 0.5 Kh Y_w H$

**Question No.114**

Marks: 1.00

The standard loads used for calculation of CBR are:

- (A)  1870 kg at 2.5 mm penetration and 2555 kg at 5.0 mm penetration
- (B)  1470 kg at 2.5 mm penetration and 2855 kg at 5.0 mm penetration
- (C)  1570 kg at 2.5 mm penetration and 2655 kg at 5.0 mm penetration
- (D)  **1370 kg at 2.5 mm penetration and 2055 kg at 5.0 mm penetration (Correct Answer) (Chosen option)**

**Question No.115**

Marks: 1.00

Bookmark

The gauge of a railway track is defined as:

- (A)  The distance between two outer faces of two-track rails
- (B)  The distance between sleepers.
- (C)  **The clear distance between inner faces of two-track rails (Correct Answer) (Chosen option)**
- (D)  The distance between inner face of one rail and outer face of another rail of the track

**Question No.116**

Marks: 1.00

Bookmark

Movable bridges are constructed across \_\_\_\_\_

- (A)  streams
- (B)  dry valley
- (C)  Highway
- (D)  **channels (Correct Answer) (Chosen option)**

**Question No.117**

Marks: 1.00

Bookmark

When a solid body is immersed in a flowing fluid, there is a narrow region of the fluid in the neighbourhood of the solid, where the velocity of fluid varies from zero to free stream velocity is known as:

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

**Question No.118**

Marks: 1.00

Bookmark

The given soil sample is having porosity value of 30% and degree of saturation 78%, then the percentage air voids is \_\_\_\_\_.

- (A)  11.6%
- (B)  **6.6% (Correct Answer) (Chosen option)**
- (C)  8.3%
- (D)  3.2%

**Question No.119**

Marks: 1.00

Bookmark

Unit of Strain is:

- (A)  **No unit (Correct Answer) (Chosen option)**
- (B)  N

(C)  N/mm<sup>2</sup>

(D)  N-mm

**Question No.120**

Marks: 1.00

**Bookmark**

In RCC design, which of the following loads is NOT considered with earthquake load?

(A)  Imposed load

(B)  Live load (Chosen option)

(C)  Snow load

(D)  Wind load (Correct Answer)

Save & Print







# JK Chrome

JK Chrome | Employment Portal



## Rated No.1 Job Application of India

Sarkari Naukri  
Private Jobs  
Employment News  
Study Material  
Notifications



JOBS



NOTIFICATIONS



G.K



STUDY MATERIAL



JK Chrome

jk chrome  
Contains ads



www.jkchrome.com | Email : contact@jkchrome.com