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SECTION 1 - SECTION

Question No.1

Marks: 1.00

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A vehicle is moving on two lane National Highway on a horizontal curve of radius 150 m at a design speed of 80 kmph, what is the extra widening required to negotiate this curve? Consider length of wheel base as 6 m.

- (A) 0.72 m
- (B) 1.0 m
- (C) **0.92 m (Correct Answer)** (Chosen option)
- (D) 0.82 m

Question No.2

Marks: 1.00

Bookmark

If a beam supports two concentrated loads, then the shape of profile followed by cable is:

- (A) Square
- (B) Triangular
- (C) **Trapezoidal (Correct Answer)**
- (D) Parabolic (Chosen option)

Question No.3

Marks: 1.00

Bookmark

The equation used to determine discharge using Darcy's law is:

- (A) $q = k / i A$
- (B) $q = k i A^2$
- (C) **$q = k i A$ (Correct Answer)** (Chosen option)
- (D) $q = i / k A$

Question No.4

Marks: 1.00

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As per IS, the internal diameter and height of the steel dolly used in core cutter test are _____ respectively.

- (A) 10 cm and 2.73 cm
- (B) 10 cm and 3 cm
- (C) **10 cm and 2.5 cm (Correct Answer)**
- (D) 11.7 cm and 1.5 cm

Question No.5

Marks: 1.00

Bookmark

The shear strength of concrete depends on:

- (A) Effective depth of beam
- (B) **Grade of concrete (Correct Answer)** (Chosen option)
- (C) Width of beam
- (D) Grade of steel

Question No.6

Marks: 1.00

Bookmark

Statistical quality control of concrete is defined as the:

- (A) **Application of the theory of probability to inspect the concrete samples (Correct Answer) (Chosen option)**
- (B) Testing of the strength of concrete samples
- (C) Reducing the cost of removal of defects in concrete
- (D) Measuring of risks to prevent the failures in concrete

Question No.7

Marks: 1.00

Bookmark

At which yards, the trains are sorted out:

- (A) Locomotive Yards
- (B) Station Yards
- (C) **Marshalling Yards (Correct Answer) (Chosen option)**
- (D) Goods Yards

Question No.8

Marks: 1.00

Bookmark

Rankine's formula is an empirical formula which is used for _____ column.

- (A) Only long
- (B) Only short
- (C) **Both long and short (Correct Answer) (Chosen option)**
- (D) Stub

Question No.9

Marks: 1.00

Bookmark

In a spirally reinforced axially loaded short column the concrete inside the core is subjected to:

- (A) Axial tension
- (B) Axial compression and biaxial bending
- (C) Axial compression and uniaxial bending
- (D) **Triaxial compression (Correct Answer) (Chosen option)**

Question No.10

Marks: 1.00

Bookmark

The efficiency of hydraulic crane which is supply water under pressure 80 N/cm^2 for lifting weight through a height 10m, is 60%. If the diameter of the ram is 150 mm and velocity ratio is $1/6$. Find Weight of lift (W) and Volume of water required (V).

- (A) **$W = 1408\text{N}$, $V = 0.0945\text{m}^3$ (Correct Answer)**
- (B) $W = 1500\text{N}$, $V = 0.084\text{m}^3$
- (C) $W = 1408\text{KN}$, $V = 0.094\text{mm}^3$
- (D) $W = 140\text{KN}$, $V = 0.94\text{mm}^3$

Question No.11

Marks: 1.00

Bookmark

The length of each link in an Engineer's chain is:

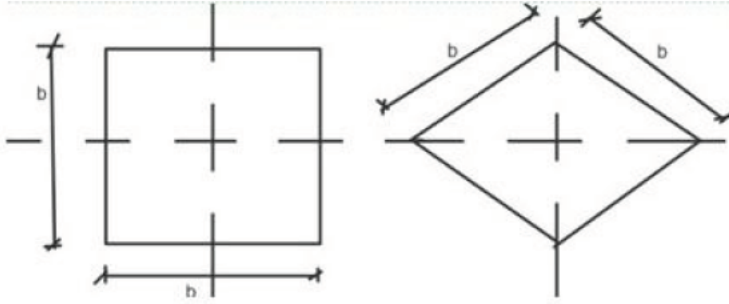
- (A) 1.5 foot
- (B) 0.5 foot
- (C) **1.0 foot (Correct Answer) (Chosen option)**
- (D) 0.75 foot

Question No.12

Marks: 1.00

Bookmark

For a given stress, compare the moment of resistance of the given figures.



- (A) $Z_1 / Z_2 = 1$
- (B) $Z_1 / Z_2 = \sqrt{2}$ (Correct Answer) (Chosen option)
- (C) $Z_1 / Z_2 = 0.5$
- (D) $Z_1 / Z_2 = 1/\sqrt{2}$

Question No.13

Marks: 1.00

Bookmark

The permissible range of inside clearance for the sampler to collect undisturbed soil sample is _____ percentage.

- (A) 0 to 2
- (B) 0.5 to 3 (Correct Answer) (Chosen option)
- (C) 3 to 5
- (D) 2.5 to 4.5

Question No.14

Marks: 1.00

Bookmark

Which of the following is NOT ballast material?

- (A) Moorum
- (B) Broken stone
- (C) Gravel
- (D) Clay (Correct Answer) (Chosen option)

Question No.15

Marks: 1.00

Bookmark

Humic acid in the water gives _____ colour.

- (A) brown (Correct Answer)
- (B) reddish
- (C) blackish
- (D) yellowish brown

Question No.16

Marks: 1.00

Bookmark

As per Rankine's Analysis, the minimum depth of the foundation for a soil having intensity of loading 150 kN/m^2 , unit weight 16.2 kN/m^3 and angle of internal friction 28° is _____.

- (A) 1.00 m
- (B) 1.80 m
- (C) 1.20 m (Correct Answer) (Chosen option)
- (D)

(D) 1.75 m

Question No.17

Marks: 1.00

Bookmark

Deep cast bearings are suitable for the span of:

- (A) 25 to 30 m
- (B) 3 to 8 m
- (C) 20 to 25 m
- (D) **12 to 20 m (Correct Answer)**

Question No.18

Marks: 1.00

Bookmark

What is the minimum time period required for soffit formworks to slabs when props are to be refixed?

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

Question No.19

Marks: 1.00

Bookmark

The materials used in construction of Water Bound Macadam are:

- (A) Coarse aggregates, tar and binding material
- (B) Coarse aggregates, emulsion, cutback, screenings and binding material
- (C) **Coarse aggregates, screenings and binding material (Correct Answer) (Chosen option)**
- (D) Bitumen, tar and binding material

Question No.20

Marks: 1.00

Bookmark

Find the depth of a point below the water surface in the sea where pressure intensity is 1.886 MN/m^2 . (The specific gravity of seawater is 1.03)

- (A) **186.65 m (Correct Answer)**
- (B) $1.9 \times 10^9 \text{ m}$ (Chosen option)
- (C) 286.65 m
- (D) 100 m

Question No.21

Marks: 1.00

Bookmark

For a sandy soil, the ultimate bearing capacity of 30 cm plate is found to be 120 kN/m^2 during plate load test. Then the ultimate bearing capacity of a square footing of 80 cm side under same loading conditions is _____.

- (A) **320 kN/m^2 (Correct Answer) (Chosen option)**
- (B) 120 kN/m^2
- (C) 180 kN/m^2
- (D) 240 kN/m^2

Question No.22

Marks: 1.00

Bookmark

The slope of water surface in any uniform flow is always equal to _____.

- (A) **zero (Correct Answer)**
- (B) negative
- (C) infinity

(D) one (Chosen option)

Question No.23

Marks: 1.00

Bookmark

When shear stresses are present in a fluid, the pressure at a point is:

- (A) Equal in all directions (Correct Answer)
(B) Zero at any point
(C) Not equal in all directions (Chosen option)
(D) No changes

Question No.24

Marks: 1.00

Bookmark

Which of the following is NOT a technique of inventory control?

- (A) FSN analysis
(B) GOLF analysis
(C) ABC analysis
(D) PERT analysis (Correct Answer) (Chosen option)

Question No.25

Marks: 1.00

Bookmark

The following should be arranged in ascending order based on their safety factor in the working stress method: (i) Connections, (ii) Short column, (iii) Long column, (iv) Tension members

- (A) $i < ii < iii < iv$
(B) $i < iv < ii < iii$ (Chosen option)
(C) $iv = ii < iii < i$ (Correct Answer)
(D) $iv = i < iii < ii$

Question No.26

Marks: 1.00

Bookmark

Which type of cracks develops due to torsion in an RCC member?

- (A) Diagonal cracks
(B) Vertical cracks
(C) Inclined cracks
(D) Spiral cracks (Correct Answer) (Chosen option)

Question No.27

Marks: 1.00

Bookmark

In a rectangular channel 8 m wide and 4 m deep having a velocity of 1 m/sec, the bed slope of the channel is 1 in 4000. The energy line is having a slope of 0.00004, find the rate of change of depth of water.

- (A) 0.0002 (Correct Answer) (Chosen option)
(B) 0.2
(C) 0.02
(D) 0.00002

Question No.28

Marks: 1.00

Bookmark

The main function of the road median is:

- (A) Act as service lanes
(B) To provide structural stability and support to the edges
(C) To serve as emergency lanes
(D) To prevent head on collision between vehicles moving in opposite directions on adjacent directions (Correct Answer) (Chosen option)

Question No.29

Marks: 1.00

Bookmark

How can the efficiency of skimming tank be increased considerably by 3 to 4 times?

- (A) By vaccum floatation method
- (B) **By passing chlorine gas along with the compressed air (Correct Answer)**
(Chosen option)
- (C) By chemical precipitation
- (D) By mean of scrapper mechanism

Question No.30

Marks: 1.00

Bookmark

Thickness of plastering is generally _____.

- (A) 40 mm
- (B) **12 mm (Correct Answer)** (Chosen option)
- (C) 25 mm
- (D) 6 mm

Question No.31

Marks: 1.00

Bookmark

In a fluid flow when two points have the same velocity, the line passing through that two points is called:

- (A) Equipotential line
- (B) Streamlines (Chosen option)
- (C) **Line of piezometric head (Correct Answer)**
- (D) Line of equilibrium

Question No.32

Marks: 1.00

Bookmark

The waste outlet of the bathtub is connected to the sullage pipe through _____.

- (A) pipes
- (B) **trap (Correct Answer)** (Chosen option)
- (C) chambers
- (D) sanitary fittings

Question No.33

Marks: 1.00

Bookmark

Capillary fringe water is also called:

- (A) Repulsive water
- (B) **Vadose water (Correct Answer)** (Chosen option)
- (C) Stored water
- (D) Added water

Question No.34

Marks: 1.00

Bookmark

In lanes weighted creep theory, weightage factor for horizontal creep is given as:

- (A) **1/3 (Correct Answer)** (Chosen option)
- (B) 2/3
- (C) 3/2
- (D) 1/2

Question No.35

Marks: 1.00

Bookmark

If the radius of a curve is 360 m and length of arch is 24 m, then the degree of

designation of curve is:

- (A) 3°49'5.45" (Correct Answer)
- (B) 5°43'38.18"
- (C) 2°51'49.09"
- (D) 1°54'32.73" (Chosen option)

Question No.36

Marks: 1.00

Bookmark

If the total stress and effective stress of the sample is 22.4 kN/m^2 & 13.4 kN/m^2 respectively, the neutral stress is equal to _____.

- (A) 12.0 kN/m^2
- (B) 11.4 kN/m^2
- (C) 9.0 kN/m^2 (Correct Answer) (Chosen option)
- (D) 7.4 kN/m^2

Question No.37

Marks: 1.00

Bookmark

Where are the stall or slab type urinals which are basically cheaper and generally used?

- (A) Handicapped and specially challenged people
- (B) Private house or buildings
- (C) Specially used in ladies toilets
- (D) Cinema hall, restaurant, municipal toilets (Correct Answer) (Chosen option)

Question No.38

Marks: 1.00

Bookmark

CBR value is used for the design of:

- (A) Sight distance
- (B) Super elevation
- (C) Transition curves
- (D) Pavement thickness (Correct Answer) (Chosen option)

Question No.39

Marks: 1.00

Bookmark

Velocity increases then loss of head:

- (A) Remain constant
- (B) Increases (Correct Answer) (Chosen option)
- (C) Become zero
- (D) Decreases

Question No.40

Marks: 1.00

Bookmark

A revised estimate is required to be prepared when the original sanctioned estimate exceeds more than:

- (A) 2.5%
- (B) 5% (Correct Answer) (Chosen option)
- (C) 10%
- (D) 7.5%

Question No.41

Marks: 1.00

Bookmark

A steel wire of 8 mm diameter is bent in to a circular arc of 16 m radius. The maximum stress induced in it will be _____. Given $E = 2 \times 10^5 \text{ N/mm}^2$

(A) 50000 N/mm²

(B) 50 N/mm² (Correct Answer)

(C) 500 N/mm²

(D) 5000 N/mm²

Question No.42

Marks: 1.00

Bookmark

Fixed plate bearings are suitable for the span up to _____.

(A) less than 4 m

(B) 22 m

(C) 12 m (Correct Answer)

(D) 13 m

Question No.43

Marks: 1.00

Bookmark

Which of the following is the most accurate and common method of measuring distance?

(A) Pedometer

(B) Speedometer

(C) Passometer

(D) Chaining (Correct Answer) (Chosen option)

Question No.44

Marks: 1.00

Bookmark

Bitumen penetration test is widely used for:

(A) Determining the elastic property of Bitumen

(B) Determining the ductility of Bitumen

(C) Grading the Bitumen (Correct Answer) (Chosen option)

(D) Determining the softening point of Bitumen

Question No.45

Marks: 1.00

Bookmark

In surveyor's compass, the graduations are shown as:

(A) 0° at NS and 180° at EW

(B) 0° at EW and 180° at NS

(C) 0° at EW and 90° at NS

(D) 0° at NS and 90° at EW (Correct Answer) (Chosen option)

Question No.46

Marks: 1.00

Bookmark

EMD stands for:

(A) Earnest money deposit (Correct Answer) (Chosen option)

(B) Essential money deposit

(C) Earliest money deposit

(D) Extra money deposit

Question No.47

Marks: 1.00

Bookmark

According to Indian railway guidelines, the major bridges having a span of more than _____ of total waterways.

(A) 18 m (Correct Answer) (Chosen option)

(B) 12 m

(C) 6 m

(D) 10 m

Question No.48

Marks: 1.00

Bookmark

The Motor Vehicles Act was established in the year _____.

- (A) 1940
(B) 1947
(C) 1934 (Chosen option)
(D) 1939 (Correct Answer)

Question No.49

Marks: 1.00

Bookmark

What is the most important unit in modern distribution system?

- (A) Break down storage (Chosen option)
(B) Head Loss due to friction
(C) Storage and distribution Reservoirs (Correct Answer)
(D) Balancing storage

Question No.50

Marks: 1.00

Bookmark

Scrap value of the property may be:

- (A) Positive only
(B) Both negative and positive (Correct Answer) (Chosen option)
(C) Constant
(D) Negative only

Question No.51

Marks: 1.00

Bookmark

Compaction of soil is defined as the process of _____ by mechanical means.

- (A) addition of solid grains
(B) removal of water voids
(C) addition of air voids
(D) removal of air voids (Correct Answer) (Chosen option)

Question No.52

Marks: 1.00

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Which of the following methods is used for measuring turbidity when it is more than 25 ppm and preferably when it is more than 100 ppm?

- (A) Baylis Turbidimeter
(B) Jackson's Turbidimeter (Correct Answer) (Chosen option)
(C) Turbidity rod
(D) Broken Capillary thermometer

Question No.53

Marks: 1.00

Bookmark

The drag force F_D on soccer ball is thought to depend on the velocity of the ball "V" diameter "D", air density "G", and viscosity " μ ". Determine the number of Pi group that can be formed from these five parameters.

- (A) Pi = 5
(B) Pi = 9
(C) Pi = 3
(D) Pi = 2 (Correct Answer) (Chosen option)

Question No.54

Marks: 1.00

Bookmark

On what does the thickness of slab primarily depend?

- (A) Cracking
- (B) Shear force
- (C) **Deflection criteria (Correct Answer)** (Chosen option)
- (D) Bending moment

Question No.55

Marks: 1.00

Bookmark

Recommended value of camber for cement concrete road in heavy rainfall area is _____.

- (A) 1.7%
- (B) 2.5%
- (C) **2% (Correct Answer)** (Chosen option)
- (D) 3%

Question No.56

Marks: 1.00

Bookmark

Application of Stokes's law is:

- (A) Separating the coolant from metal chips in machining operation (Chosen option)
- (B) Building Flow
- (C) **Air Flow (Correct Answer)**
- (D) Submerge Flow

Question No.57

Marks: 1.00

Bookmark

The size of test plates used in plate load test usually ranges from _____ mm to _____.

- (A) 30, 75 (Chosen option)
- (B) 100, 300
- (C) **300, 750 (Correct Answer)**
- (D) 75, 150

Question No.58

Marks: 1.00

Bookmark

A noise can be fully characterized by breaking it down into its frequency components are called:

- (A) Sound intensity
- (B) Sound levels (Chosen option)
- (C) Octave band
- (D) **Spectra (Correct Answer)**

Question No.59

Marks: 1.00

Bookmark

A pipe of 200 mm diameter is carrying water. If the velocities at the pipe center and 30 mm from the pipe center are 2.5 m/s and 1.5 m/s respectively and flow in the pipe is turbulent, calculate shearing stress

- (A) $T_0 = 205 \text{ N/m}^2$
- (B) **$T_0 = 105.83 \text{ N/m}^2$ (Correct Answer)** (Chosen option)
- (C) $T_0 = 20 \text{ N/m}$
- (D) $T_0 = 100 \text{ N/mm}^2$

Question No.60

Marks: 1.00

Bookmark

The distance between two pegs P and Q is chained. Before reaching peg Q, the back man has used 10 chains and also, he has counted 15 links from last arrow to peg Q. If the length of chain is 20 m and length of one link is 0.2 m, the total distance between pegs P and Q is:

- (A) 200 m
(B) 3 m
(C) **203 m (Correct Answer)** (Chosen option)
(D) 303 m

Question No.61

Marks: 1.00

Bookmark

An impulse is a characterized by a change of sound pressure of at least _____ within 0.5 seconds with a duration of less than 1 second.

- (A) 70 dB
(B) 90 dB (Chosen option)
(C) 20 dB
(D) **40 dB (Correct Answer)**

Question No.62

Marks: 1.00

Bookmark

Slope and deflection of a cantilever beam carrying a moment M at the free end is given by:

- (A) $ML^2/2EI$ and ML/EI
(B) ML/EI and M/EI
(C) **ML/EI and $ML^2/2EI$ (Correct Answer)**
(D) M/EI and ML/EI (Chosen option)

Question No.63

Marks: 1.00

Bookmark

Which of the following is the use of Altitude valves?

- (A) To allows water to flows in one direction only
(B) To blow off or remove the sand
(C) **Distribution system to shut off the supply whenever required (Correct Answer)** (Chosen option)
(D) Supplies water to elevated tanks or standpipes

Question No.64

Marks: 1.00

Bookmark

Which of the following is used to calculate flexural tensile strength of concrete?

- (A) $\frac{280}{3 \times \sigma_{cbc}}$
(B) $5700 \sqrt{f_{ck}}$
(C) **$0.7 \sqrt{f_{ck}}$ (Correct Answer)** (Chosen option)
(D) $5000 \sqrt{f_{ck}}$

Question No.65

Marks: 1.00

Bookmark

The width of narrow gauge in India is:

- (A) 1.676 m
 (B) 1.762 m
 (C) **0.610 m (Correct Answer)** (Chosen option)
 (D) 1.0 m

Question No.66

Marks: 1.00

Bookmark

The river is divided into ____ stages to find the proper location for the head works on the river.

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

Question No.67

Marks: 1.00

Bookmark

Dangling error occurs in:

- (A) **Project Network Diagram (Correct Answer)** (Chosen option)
 (B) Safety Assessment
 (C) Quality measurement
 (D) Resource Calculation

Question No.68

Marks: 1.00

Bookmark

Calculate the critical path for the following project's activities:

Activity	Predecessors	Duration (days)
A	-	3
B	A	4
C	A	5
D	A	4
E	B	2
F	D	9
G	C, E	6
H	F, G	2

- (A) A-B-E-G-H (Chosen option)
 (B) **A-D-F-H (Correct Answer)**
 (C) A-C-G-H
 (D) A-B-C-F-H

Question No.69

Marks: 1.00

Bookmark

The motion of a particle is given by $x = t^3 - 12t + 6$. Find the distance traveled and acceleration when the velocity becomes zero.

- (A) 10m, $-12m/s^2$
 (B) **-10m, $12m/s^2$ (Correct Answer)** (Chosen option)
 (C) 10m, $12m/s^2$
 (D) -10m, $-12m/s^2$

Question No.70

Marks: 1.00

Bookmark

For a specific strata, porosity (n) is 0.45, specific yield (Sy) is 25%, specific retention

(Sr) in % is:

- (A) 20 (Correct Answer) (Chosen option)
(B) 0.2
(C) 65
(D) 2.25

Question No.71

Marks: 1.00

Bookmark

If the diameter of the pipe sewers is 230 mm. What is the recommended "gradient and discharge (M³/min)" capacity of house sewer's pipes?

- (A) 1 in 250, 1.56 respectively (Chosen option)
(B) 1 in 120, 0.93 respectively (Correct Answer)
(C) 1 in 45, 0.72 respectively
(D) 1 in 30, 0.15 respectively

Question No.72

Marks: 1.00

Bookmark

Determine the load carrying capacity of column size 450 × 600 mm casted with M30 grade of concrete and reinforcement with 4-20 mm dia bars of Fe415 steel. Effective length is 3.5 m

- (A) 2403.89 kN
(B) 3977.44 kN (Correct Answer)
(C) 2576.12 kN
(D) 2067.97 kN

Question No.73

Marks: 1.00

Bookmark

The water content (w) of a soil sample is defined as the ratio of weight of water to the _____.

- (A) weight of voids
(B) weight of the solids (Correct Answer) (Chosen option)
(C) total volume
(D) total weight

Question No.74

Marks: 1.00

Bookmark

For all the qualities of the concrete, the strain at maximum stress is nearly:

- (A) 0.004
(B) 0.04
(C) 0.02
(D) 0.002 (Correct Answer) (Chosen option)

Question No.75

Marks: 1.00

Bookmark

Which one of the following is a statically indeterminate structure?

- (A) Two hinged arches (Correct Answer) (Chosen option)
(B) Simply Supported beam
(C) Three hinged arches
(D) Cantilever beam

Question No.76

Marks: 1.00

Bookmark

The force exerted by a static fluid on a surface either plane or curved, when the fluid comes in the contact with surface is called:

- (A) Total pressure (Correct Answer) (Chosen option)
- (B) Centre of pressure
- (C) Normal pressure
- (D) Pressure density

Question No.77

Marks: 1.00

Bookmark

The flow is in the space between the _____ eccentric circular cylinder called eccentric annulus.

- (A) ten
- (B) three
- (C) two (Correct Answer)
- (D) five

Question No.78

Marks: 1.00

Bookmark

The ratio of volume of water drained by gravity to total volume is known as:

- (A) Specific retention
- (B) Specific yield (Correct Answer) (Chosen option)
- (C) Coefficient of transmissibility
- (D) Storage coefficient

Question No.79

Marks: 1.00

Bookmark

In a simply supported beam, temperature variation produces:

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

Question No.80

Marks: 1.00

Bookmark

Thin cylinders are designed on the basis of:

- (A) Shear Stress
- (B) Hoop Stress (Correct Answer) (Chosen option)
- (C) Bending Stress
- (D) Longitudinal Stress

Question No.81

Marks: 1.00

Bookmark

Aggrading rivers are:

- (A) Silting rivers (Correct Answer) (Chosen option)
- (B) Rivers in regime
- (C) Meandering rivers
- (D) Scouring rivers

Question No.82

Marks: 1.00

Bookmark

A deficit of sediments in flowing water may cause a river:

- (A) Meandering type
- (B) Sub-critical type
- (C) Degradation type (Correct Answer)
- (D) Aggrading type (Chosen option)

Question No.83

Marks: 1.00

Bookmark

Deflection of a simply supported beam with a uniformly distributed load is given by:

(A) $yc = \frac{5}{84} * \frac{WL^3}{EI}$

(B) $yc = \frac{5}{384} * \frac{L^3}{EI}$

(C) $yc = \frac{5}{384} * \frac{WL^3}{E}$

(D) $yc = \frac{5}{384} * \frac{WL^3}{EI}$ (Correct Answer) (Chosen option)

Question No.84

Marks: 1.00

Bookmark

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

(A) Elilvandan Sreedharan(B) **Elattuvalapil Sreedharan (Correct Answer)**(C) Ekdantaya Sreedharan (Chosen option)(D) Ellilarasanaya Sreedharan**Question No.85**

Marks: 1.00

Bookmark

Select the INCORRECT statement.

(A) **There are multiple load paths in one-way slabs. (Correct Answer)**(B) The design of wall supported two-way slab is similar to a one-way slab. (Chosen option)(C) Primarily, the one-way slab deforms in one direction.(D) Two-way slab deforms in two mutually perpendicular directions.**Question No.86**

Marks: 1.00

Bookmark

Milestone chart is an improvement over:

(A) **Bar chart (Correct Answer) (Chosen option)**(B) CPM(C) PERT(D) Abacus chart**Question No.87**

Marks: 1.00

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In a tacheometry, when line of sight is inclined with an angle of elevation and staff is held vertical, the horizontal distance is given as:

(A) $. K s + C$

(B) $. K s \cos\theta + C \cos\theta$

(C) $K s \cos\theta + C$

(D) $. K s \cos^2\theta + C \cos\theta$ (Correct Answer) (Chosen option)

Question No.88

Marks: 1.00

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Recommended value of slump of concrete for road construction is:

- (A) 70 to 80 mm
- (B) 90 to 100 mm
- (C) **20 to 40 mm (Correct Answer)** (Chosen option)
- (D) 40 to 50 mm

Question No.89

Marks: 1.00

Bookmark

The angles of a well-proportioned triangle in a chain survey should not be:

- (A) $> 30^\circ$ and $< 120^\circ$ (Chosen option)
- (B) $> 120^\circ$
- (C) 0° to 180°
- (D) $< 30^\circ$ (Correct Answer)

Question No.90

Marks: 1.00

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The width of carriageway for two-lane road with raised Kerb is _____.

- (A) 5.5 m
- (B) **7.5 m (Correct Answer)** (Chosen option)
- (C) 7.0 m
- (D) 3.75 m

Question No.91

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Bookmark

Which of the following does NOT represent a type of culvert?

- (A) Pipe culvert
- (B) Slab culvert
- (C) Box culvert
- (D) **Through culvert (Correct Answer)** (Chosen option)

Question No.92

Marks: 1.00

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The force of resistance per unit area, offered by a body against deformation is known as:

- (A) Strain
- (B) Compressive stress
- (C) Tensile stress
- (D) **Stress (Correct Answer)** (Chosen option)

Question No.93

Marks: 1.00

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The falsework in bridge construction is usually done with:

- (A) Aluminium
- (B) Copper
- (C) **Wood (Correct Answer)**
- (D) Steel (Chosen option)

Question No.94

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Select the INCORRECT statement.

- (A) **Measurement book has only one different section namely final measurement. (Correct Answer)**

- (B) Measurement book is important evidence in the court of law.
(C) Bill of quantity is required to maintain the measurement book. (Chosen option)
(D) It is necessary to mention the unit of measurement in the measurement book.

Question No.95

Marks: 1.00

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A vertical tank square in plane has side width 3.5 m. It contains an oil of specific gravity 0.9 up to depth of 24 m. Calculate total pressure at bottom and at the lateral side of tank.

- (A) $P_s = 250\text{N}, P_{bottom} = 60\text{N}$
(B) $P_s = 100\text{N}, P_{bottom} = 250\text{KN}$
(C) $P_s = 8897 \times 10^3 \text{N}, P_{bottom} = 25957 \times 10^3 \text{N}$ (Correct Answer)
(D) $P_s = 115\text{N}, P_{bottom} = 125\text{N}$

Question No.96

Marks: 1.00

Bookmark

Calculate bending moment at the fixed end of cantilever beam having span of 2 m carries uniformly distributed load of 1 kN/m run over the length of 1.5 m from the free end.

- (A) -1.125 Nm
(B) -1.875 Nm (Correct Answer) (Chosen option)
(C) 1.5 kNm
(D) 1.125 Nm

Question No.97

Marks: 1.00

Bookmark

The expansion of Portland Pozzolana cement should NOT be more than ____ mm.

- (A) 15
(B) 3 (Chosen option)
(C) 5
(D) 10 (Correct Answer)

Question No.98

Marks: 1.00

Bookmark

Which of the following areas is NOT included in buildings' plinth area?

- (A) Internal shafts for sanitary installations upto 2 sq.m. in area
(B) Area of the walls at the floor levels
(C) Lift and Wall including landing
(D) Area of Cantilevered porch (Correct Answer) (Chosen option)

Question No.99

Marks: 1.00

Bookmark

A reservoir with controlled outlets is known as:

- (A) Control reservoirs (Chosen option)
(B) Extending basin
(C) Retarding basin (Correct Answer)
(D) Detention basins

Question No.100

Marks: 1.00

Bookmark

In solving three point problem by trial and error process, the fix strength is good when:

- (A) The angle subtended by the two lines obtained by joining the three points is

very small

- (B) The station occupied by the plane table lies on the circle passing through the three points (Chosen option)
- (C) The station occupied by the plane table lies near the circle passing through the three points
- (D) **The station occupied by the plane table lies within the triangle formed by the three points (Correct Answer)**

Question No.101

Marks: 1.00

Bookmark

For a triangular channel with slopes M:1(H:V), the Froude number F is:

- (A) m / \sqrt{gy}
- (B) $v \sqrt{2} / g \sqrt{y}$
- (C) **$v \sqrt{2} / \sqrt{gy}$ (Correct Answer)**
- (D) $v / \sqrt{2gy}$ (Chosen option)

Question No.102

Marks: 1.00

Bookmark

The vertical upward earthquake acceleration $a_v = 0.2g$ performing on a gravity dam will:

- (A) Increase the uplift by 20%
- (B) **Increase the weight of the dam by 20% (Correct Answer)** (Chosen option)
- (C) Decrease the uplift by 10%
- (D) Decrease the weight of the dam by 20%

Question No.103

Marks: 1.00

Bookmark

For a rectangular beam of size 350×750 mm which is acted upon by torsion of 100 kNm in combination with working negative moment of 200 kNm and working shear force of 120 kN. What will be the equivalent shear force?

- (A) 180.73 kN
- (B) 126.33 kN
- (C) **577.143 kN (Correct Answer)**
- (D) 500.3 kN

Question No.104

Marks: 1.00

Bookmark

When the speed of outlet discharge equals to rate of change of channel discharge it is called _____.

- (A) setting
- (B) sensitivity
- (C) **proportionality (Correct Answer)** (Chosen option)
- (D) flexibility

Question No.105

Marks: 1.00

Bookmark

A prestressed rectangular concrete beam of size 150×450 mm is prestressed by wires of area 150 mm^2 at an eccentricity of 50 mm. The initial pre stress in the wires is 1300 N/mm^2 . What is the loss of stress in steel due to creep of concrete? Take $E_s = 210 \text{ KN/mm}^2$, $E_c = 35 \text{ KN/mm}^2$, ultimate creep strain is $41 \times 10^{-6} \text{ mm/mm per N/mm}^2$.

- (A) 12.15 N/mm^2
- (B) **28.49 N/mm^2 (Correct Answer)**
- (C) 20 N/mm^2
- (D) 3.31 N/mm^2

Question No.106

Marks: 1.00

Bookmark

When was the first metro system operated in Kolkata, India?

- (A) 1985
(B) 1986 (Chosen option)
(C) 1987
(D) **1984 (Correct Answer)**

Question No.107

Marks: 1.00

Bookmark

Which grade of concrete should be used when reinforced concrete is exposed to rain or remain continuously under water?

- (A) M40
(B) M30 (Chosen option)
(C) M20
(D) **M25 (Correct Answer)**

Question No.108

Marks: 1.00

Bookmark

Aggregate impact test and abrasion test measure:

- (A) Toughness only
(B) Resistance to weathering action
(C) Hardness only
(D) **Toughness and Hardness (Correct Answer)** (Chosen option)

Question No.109

Marks: 1.00

Bookmark

Upto _____ cm thick brick walls, IS 1200-III allows the measurement of brick walls in sq. meters.

- (A) 8
(B) **10 (Correct Answer)** (Chosen option)
(C) 12
(D) 14

Question No.110

Marks: 1.00

Bookmark

The Cadastral survey is used for:

- (A) Determining quantities
(B) Determining natural features of a country
(C) Laying out plots
(D) **Determining boundaries of fields (Correct Answer)** (Chosen option)

Question No.111

Marks: 1.00

Bookmark

Which among the following is a scalar quantity?

- (A) **Volume (Correct Answer)** (Chosen option)
(B) Momentum
(C) Weight
(D) Force

Question No.112

Marks: 1.00

Bookmark

Control limits are defined as:

- (A) Limits driven by the inherent variability of the process
(B) Limits defined by customers
(C) **Limits driven by the natural variability of the process (Correct Answer)**
(D) Statistical limits

Question No.113

Marks: 1.00

Bookmark

The degree of static indeterminacy up to which column analogy method can be used is

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

Question No.114

Marks: 1.00

Bookmark

What is the equation for coefficient of volume change (m_v)?

- (A) $m_v = \frac{1+e_o}{a_v}$
(B) $m_v = \frac{a_v}{1+\sigma_o}$
(C) $m_v = \frac{-\Delta e}{\Delta \sigma'}$
(D) $m_v = \frac{a_v}{1+e_o}$ **(Correct Answer)** (Chosen option)

Question No.115

Marks: 1.00

Bookmark

Which condition in the following defines a wall ($y=0$) in a boundary layer?

- (A) $\delta^2 u / \delta y^2 = 0$
(B) **$U=0, V=0$ (Correct Answer)**
(C) $u=U$
(D) Shear stress = 0 (Chosen option)

Question No.116

Marks: 1.00

Bookmark

In relation to subgrade compaction, what is OMC and MDD?

- (A) Optimum and Maximum Content of soil and Maximum Dry Density
(B) Optimum Mineral Content and Maximum Dry Density
(C) **Optimum Moisture Content and Maximum Dry Density (Correct Answer)**
(Chosen option)
(D) Optimum Measure Content of soil and Maximum Dry Density

Question No.117

Marks: 1.00

Bookmark

What do you mean by the term 'Procedure'?

- (A) Enforces discipline
(B) Essence of management
(C) Includes the process of test and interview
(D) **Method of performing a task (Correct Answer)** (Chosen option)

Question No.118

Marks: 1.00

Bookmark

ABC inventory control focuses on:

- (A) Items that consume less money
- (B) Items that have more demand
- (C) **Items that are very significant to inventory control (Correct Answer)**
(Chosen option)
- (D) Items not readily available

Question No.119

Marks: 1.00

Bookmark The fore bearing of a line measured is 60° , the back bearing of the same line is:

- (A) 60°
- (B) **240° (Correct Answer)** (Chosen option)
- (C) 120°
- (D) 180°

Question No.120

Marks: 1.00

Bookmark

A seamless pipe is to carry a fluid under a pressure of 2 N/mm^2 . The thickness of the cylinder is 10 mm. Calculate the diameter of the pipe if the maximum stress allowed is 100 N/mm^2 .

- (A) 0.8 m
- (B) 0.9 m
- (C) 1.1 m
- (D) **1 m (Correct Answer)** (Chosen option)

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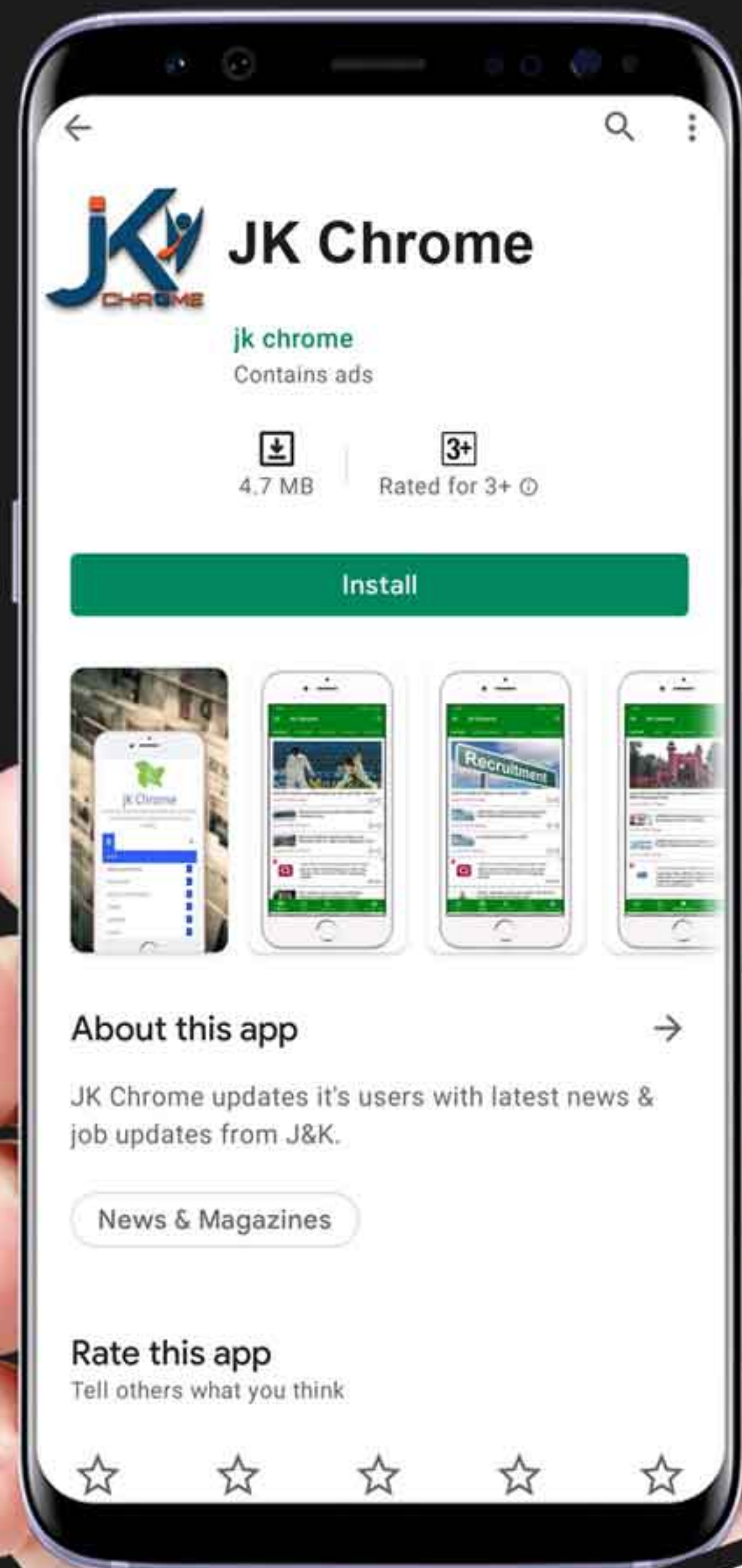
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