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For Any Query Call - 8595517959 | Website - everexam.org
Q : ) The minimum value of coefficient of friction desirable along the longitudinal direction and the lateral direction are
A : 0.5 and 0.3 respectively
B : 0.35 and 0.15 respectively
C : 0.3 and 0.5 respectively
D : 0.15 and 0.35 respectively

For Any Query Call - 8595517959 | Website - everexam.org
Q : ) The test to determine the hardness property of aggregates used in highways is:
A : Soundness test
B : Impact test
C : Abrasion test
D : Crushing test

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A : Perception, Intellection, emotion, volition
B : Perception, intellection, emotion, vision
C : Perception, intelligence, emotion, volition
D : Propound, intellection, emotion, volition

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A : Sources of income and estimated revenue
B : Agricultural and industrial products available in the area
C : Origin and destination studies
D : Soil subgrade characteristics

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Q : ) Which bitumen test is conducted to determine hardness of bitumen?
A : Softening point test
B : Float test
C : Spot test
D : Penetration test

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Q : ) Which of the following is not a commonly adopted transition curve in horizontal alignment?

## A : Spiral

B : Lemniscate
C : Cubic parabola
D: Sag

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$$

A : Block pattern
B : Star and block pattern
C : Hexagonal pattern
D : Diamond pattern

Q : ) The upper safe speed for traffic regulation as estimated using spot speed studies is:
A : $85^{\text {th }}$ percentile
B : $15^{\text {th }}$ percentile
C : $50^{\text {th }}$ percentile
D : $98^{\text {th }}$ percentile

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 the super elevation isA: 1 in 20
$B: 1$ in 40
C : 1 in 50
D : 1 in 25

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A : Fourth 20 year road plan
B : First 20 year road plan
C : Third 20 year road plan
D : Second 20 year road plan

For Any Query Call - 8595517959 | Website - everexam.org
Daily Class - 8:30 PM
Q : ) The type of the chamber which is best suited for the cement concrete pavement is

## A : Straight line

B : Parabolic
C : Elliptical
D : Composite

For Any Query Call - 8595517959 | Website - everexam.org
Q : ) Bottom most component of a flexible pavement is called
A : Sub-base
B : Base
C : Sub-grade
D : Base curve

## For Any Query Call - 8595517959 | Website - everexam.org

Q : ) The design of highways, expansion and contraction joints should respectively be provided at
A : 50 m and 32 m
B : 50 m and 10 m
C : 25 m and 10 m
D : 25 m and 32 m

Q : ) Stages of engineering surveys for highway locations in the following order
A : Preliminary surveys, map study, reconnaissance, final location and detailed surveys
B : Preliminary surveys, map study, final location and detailed surveys, reconnaissance
C : Map study, reconnaissance, preliminary surveys, final location and detailed survey
D : May study, preliminary surveys, final location and detailed surveys, reconnaissance

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$\qquad$ joints respectively.
A : Longitudinal, contraction
B : Explanation, longitudinal
C : Longitudinal, expansion
D : Expansion, contraction

## For Any Query Call - 8595517959 | Website - everexam.org

Q : ) The function of an expansion joint in the rigid pavement is to
A : Allow free expansion
B : Relive warping stresses
C : Relive shrinkage stresses
D : Resist stress due to expansion

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Q : ) The major roads with two lanes each are crossing in an urban area to form an uncontrolled intersection, The number of conflict points when both the roads are two way is $X$, and when both the roads are one way is $Y$. The ratio of conflict points $X$ to $Y$ is:
A: 3
B: 2.5
C : 2
D : 4

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A : Same viscosity
B : Viscosity in increasing order from RC-2 to SC-2
C : Viscosity in decreasing order from RC-2 to SC-2
D : None of the above

D : 1934

## For Any Query Call - 8595517959 | Website - everexam.org

Q : ) The minimum width of the carriageway for a two-lane road without raised kerbs is
A : 7.0 m
B : 7.5 m
C : 5.5 m
D : 6.5 m

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Q : ) Aggregate impact value indicates the following property of aggregates
A : Durability
B : Toughness
C : Hardness
D : Strength

Q : ) As per the modified classification of road system by the third road development plan, 1981 - 2001, the roads in network consist of
A : Expressways and national highways
B : State highways (HS) and major districts roads (MDR)
C : Other district roads (ODR) and village roads (VR)
D : All of the above

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A : Personal car unit
B : Passenger car unit
C : Passenger care unit
D : Personal care unit

## Q : ) Select the incorrect statement regarding shoulder

A : Colour of the shoulder should be different from that of the pavement
B : Shoulder width will be difference between the roadway width and carriage way width.
C : It should be rougher than the traffic lanes so that users do not use it as regular traffic lane
D : Shoulder use increases rapidly with the decrease in pavement width below 7 m .

For Any Query Call - 8595517959 | Website - everexam.org
Q : ) The shape of the stop sign according to IRC : 67-2001 is
A: Circular
B : Triangular
C : Octagonal
D : Rectangular

A : Its penetration value is $6 \mathbf{~ m m}$ to 7 mm
$B$ : Its penetration value is 60 cm to 70 cm
C : Its penetration value is $\mathbf{6 0 ~ m m}$ and softening point is $\mathbf{7 0}$
D : Its specific gravity is 0.6 to 0.7

For Any Query Call - 8595517959 | Website - everexam.org
Q : ) The dowel is used in rigid pavements for
A : Resisting tensile stresses
B : Resisting bending stresses
C : Resisting shear stresses
D : Transferring load from one portion to another

Q : ) If the design speed is V kmph and deviation angle is N radians, then the total length of a valley curve in meter is expressed as
$\mathrm{A}: 3.8 \mathrm{NV}^{\mathbf{1 / 2}}$
B : $3.8\left(N V^{3}\right)^{1 / 2}$
C : $0.38\left(N V^{3}\right)^{1 / 2}$
D : $0.38(N V)^{3 / 2}$

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A : Origin and destination studies
B : Speed studies
C : Axle load studies
D : None of these are correct

Q : ) In which of the following test of bitumen ring and ball apparatus is used?
A : Penetration test
B : Softening point test
C : Viscosity test
D : Flash and fire point test and 50 m radius of curve.
A : 4.5\%
B : 4\%
C : 3.5\%
D:3

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A : Number of vehicles occupying a unit length of road at a given instant of time
$B$ : Number of vehicles at the cross roads
C : Number of vehicles passing a given point on road in a given unit of time in a given direction.
D : Number of vehicles passing a given point on road in a given unit of time in all the possible directions.

A : tack coat
B : Prime coat
C : Fog seal
D : None of these are correct

A : The bearing capacity of soil
B : The thickness of a flexible pavement
C : Ratio of ultimate bearing capacity to net bearing capacity
D : Depth of foundation

A : If $R>300$, then extra widening is not provided.
$B$ : If $R>50 \mathrm{~m}$, then extra widening is provided is provided at outer edge
C : If $50<R<300 \mathrm{~m}$, then extra widening is provided at both the edges.
D : Extra widening is the sum of mechanical widening and psychological widening related by
$\mathrm{A}: \frac{P}{P_{C}}=R$
$\mathrm{B}: \frac{P_{C}}{P}=R$
C: $\mathbf{P} \times P_{C}=R$
$\mathbf{D}: \mathbf{R}=\sqrt{\left(\boldsymbol{P} \times \boldsymbol{P}_{C}\right)}$

For Any Query Call - 8595517959 | Website - everexam.org
Q : ) In flexible pavement analysis, it is assumed that the load transferred through layers by:
A : Load stresses are absorbed in the top layer
B : Grain to grain transfer through points of contact
C : Beam action
D : Slab action

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A : National highway
B : Rural road
C : State highway
D : Major district road .

## A : 1 in 90

B : 1 in 45
C : 1 in 36
D: 1 in 18

A : Not more than 12\%
B : Nor more than $8 \%$
C : Not more than 5\%
D : Not more than 10\%

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## For Any Query Call - 8595517959 | Website - everexam.org

Q :) The slope of the road pavement in the longitudinal direction is called

## A : Superelevation

B : Shift
C : Gradient
D : Camber

## For Any Query Call - 8595517959 | Website - everexam.org

Q : ) If the radial acceleration of transition curve is $30 \mathrm{~cm} / \mathrm{sec}^{3}$, radius is 200 m and the velocity is $14 \mathrm{~m} / \mathrm{sec}$. The length of the transition curve is $\qquad$ .
A : 46.0 m
B : 46.5 m
C : 45.0 m
D : 44.5 m

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B : 64 m
C : 80 m
D : 60 m

## For Any Query Call - 8595517959 | Website - everexam.org

Q : ) By which colour is the safety symbol related to the prohibition of work (ex. do not dig here) depicted?
A : Green
B : Red
C: Yellow
D : Black

## For Any Query Call - 8595517959 | Website - everexam.org

Q : ) Calculate the theoretical capacity (C) of a traffic lane with oneway traffic flow for the given data.

1. Traffic flow at a stream speed $=40 \mathrm{~km} / \mathrm{h}$
2. Average center to center spacing of vehicles $=12.8 \mathrm{~m}$

A : 312.5 vehicle/hour/lane
B : 3125 vehicle/hour/lane
C : 3.125 vehicle/hour/lane
D : 31.25 vehicle/hour/lane

## For Any Query Call - 8595517959 | Website - everexam.org

Q : ) Which of the following test is used for the bitumen?
A : Slump test
B : Abrasion test
C : Penetration test
D : Fineness test

C : 35 mm
D : 45 mm

For Any Query Call - 8595517959 | Website - everexam.org
Q : ) The cement concrete roads are not preferred due to
A : It require long tome for curing
B : High initial cost
C : Iron tyres made more noise
D : More reflection of sun light to eyes

A : Rigid overlay on rigid pavement
B : Flexible overlay in flexible pavement
C : Flexible overlay on rigid pavement
D : Rigid overlay on flexible pavement

## For Any Query Call - 8595517959 | Website - everexam.org

Q : ) Maximum number of vehicles that can pass a given point on a lane during one hour without creating unreasonable delay is known as-
A : Practical capacity
B : Basic capacity
C : Traffic density
D : Probable capacity are related by
$\mathrm{A}: \frac{P}{P_{C}}=R$
$\mathrm{B}: \frac{P_{C}}{P}=R$
C: $\mathrm{P} \times \mathrm{P}_{\boldsymbol{C}}=R$
$\mathbf{D}: \mathbf{R}=\sqrt{\left(\boldsymbol{P} \times \boldsymbol{P}_{C}\right)}$

C : 1948
D : 1956

A : Star and circular pattern
B : Star and block pattern
C : Star and grid pattern
D : Star and hexagonal pattern

For Any Query Call - 8595517959 | Website - everexam.org
Daily Class - 8:30 PM
Q : ) For a hill road with the ruling gradient of $6 \%$, what will be the compensated gradient at a curve of radius 60 m ?
A : 5.5\%
B : 4.5\%
C : 4.75\%
D : 5\% taking mixed traffic into consideration?
A : 10.0\%
B : 5.5\%
C : 7.0\%
D : 4.0\%
$\mathrm{A}: L^{3} / 24 R^{2}$
B : $L^{3} / 240 R$
C : $L^{3} / 24 R$
D : $L^{2} / \mathbf{2} .4 \mathrm{R}$

| 1. Regulatory sign | A. Prohibitory signs, restriction end signs, stop <br> and give way signs, etc. |
| :--- | :--- |
| 2. Warning signs | B. Cross road, side road righ, narrow bridge, etc |
| 3. Informatory <br> signs | C. Parking signs, flood gauge facility information <br> sign, etc. |

A: 1-A, 2-B, 3-C
$B: 1-A, 2-C, 3-B$
C:1-B, 2-C, 3-A
D: 1-C, 2-A, 3-B

For Any Query Call - 8595517959 | Website - everexam.org
Q : ) Scientific planning of transport system and mass transit facilities in cities is based on:
A : Spot speed data
B : Origin and destination data
C : Traffic volume data
D : Accident data

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\mathrm{B}: C=\frac{1.5 L+5}{1+Y}
$$

$$
\mathrm{C}: C=\frac{1.5 L+5}{1-Y}
$$

$$
\mathrm{D}: C=\frac{1.65 L+5}{1-Y}
$$

## For Any Query Call - 8595517959 | Website - everexam.org

Q : ) A semi rigid material which forms an excellent impervious layer for damp proofing is termed as
A : Mastic asphalt
B : Bitumen
C : Alumina
D : Bituminous felt

For Any Query Call - 8595517959 | Website - everexam.org
Daily Class - 8:30 PM
Q : ) While conducting the softening point test on bitumen, the result is expressed as:
A : Viscosity
B : Time
C : Temperature
D : Flow

## For Any Query Call - 8595517959 | Website - everexam.org

Q : ) Calculate spacing between expansion joints, if the expansion joint gap is 2.0 cm in a cement concrete pavement. The laying temperature is $10^{\circ} \mathrm{C}$ and the maximum slab temperature in summer is $50^{\circ} \mathrm{C}$
A: 30 m
B : 25 m
C : 100 m
D : 20 m

## For Any Query Call - 8595517959 | Website - everexam.org

Q : ) The interface treatment provided to plug in the voids of porous surfaces and to bond loose particles in bituminous pavements is called:
A : Tack coat
B : Seal coat
C : Prime coat
D : Surface dressing

Q : ) A two-lane road with design speed $60 \mathrm{~km} / \mathrm{h}$ has a horizontal curve of radius 400 m . What will be the super elevation required to be provided for the mixed traffic conditions at the curve as per IRC 38 1998?
A : 8.7\%
B : 6.4\%
C : 4.0\%
D : 7\%

## For Any Query Call - 8595517959 | Website - everexam.org

Q : ) The cumulative speed distribution curve is usually adopted for geometric design of highway. The percentile speed adopted for geometric design is $\qquad$ .
A : 85 percentile speed
B : 90 percentile speed
C : 98 percentile speed
D : 99.9 percentile speed

Q : ) As per IRC recommendations, the width of carriageway per lane in a multilane pavements is
A : 2.5 m
B : 4.0 m
C : 3.5 m
D : 3.0 m

Q : ) The camber for cement concrete and high type bituminous surface for heavy rain fall condition is
A : 1 in 25
$B: 1$ in 33
C : 1 in 40
D : 1 in 50

Q : ) The total width of the pavement on a horizontal circular curve = 7.5 m and the superelevation is 0.06 . Calculate the magnitudes of raising at the outer edge of the pavement with respect to the central line and inner edge, respectively.
A : $0.225 \mathrm{~m} ; 0.06 \mathrm{~m}$
B : $0.06 \mathrm{~m} ; 0.45 \mathrm{~m}$
C : $0.225 \mathrm{~m} ; 0.45 \mathrm{~m}$
D : $0.06 \mathrm{~m} ; 0.225 \mathrm{~m}$

For Any Query Call - 8595517959 | Website - everexam.org
Daily Class - 8:30 PM
Q : ) For a hill road with the ruling gradient of $6 \%$, what will be the compensated gradient at a curve of radius 60 m ?
A : 5.5\%
B : 4.5\%
C : 4.75\%
D : 5\%

Q : ) Relationship between traffic speed and density is described using a negatively sloped straight line, If $v$ is the free-flow speed then the speed at which the maximum flow occurs is
A: 0
B: $\frac{v_{f}}{4}$
$\mathrm{C}: v_{f}$
D : $\frac{v_{f}}{2}$

Q : ) Regulatory signs are generally circular in shape. Identify a regulatory sign which is NOT circular in shape
A : No parking sign
B : Restriction Ends sign
C : Stop sign
D : Speed limit sign

Q : ) A traffic lane has one way traffic flow at a stream speed of 40 kmph . The average space gap between vehicles to follow 0.278 Vt . Assuming the average reaction time as 0.7 sec and average length of vehicle as 5 m , the theoretical capacity calculated with above data in vehicles per hour per lane will be:

## A: 2170

B : 2350
C : 2840
D : 3130

Q: ) Desirable range of softening point for bitumen is
A : $10^{\circ} \mathrm{C}$ to $25^{\circ} \mathrm{C}$
B : $10^{\circ} \mathrm{C}$ to $25^{\circ} \mathrm{C}$
C : $35^{\circ} \mathrm{C}$ to $\mathbf{7 0}^{\circ} \mathrm{C}$
D : Greater than $\mathbf{1 7 5}^{\boldsymbol{\circ}} \mathrm{C}$

For Any Query Call - 8595517959 | Website - everexam.org
Q : ) The Pensky-Martens apparatus are used for conducting the test on bitumen for testing -
A : Fire point
B : Ductility
C : Viscosity
D : Penetration

For Any Query Call - 8595517959 | Website - everexam.org
Q : ) Bottom most layer of Pavement is known as -
A : Wearing course
B : Base course
C : Sub-base course
D : Sub grade

## For Any Query Call - 8595517959 | Website - everexam.org

Q : ) In tri axial test method, 20 cm thickness material has a E valve $216 \mathrm{~kg} / \mathrm{cm}^{2}$, which is equivalent to thickness $T$ with $E$ value 343 kg $/ \mathrm{cm}^{2}$. What is the value of $T$ ?
A : 27 cm
B : 24 cm
C : 20 cm
D : 17 cm

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A : Group index method
B : Westergard method
C : CBR method
D : Benkelman beam method

D : None of above

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D : Peak hourly volume of the year

## Result : SSC JE 2019

## Selected Candidates For DV From EverExam 100 + SZLECTION



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Swaraj Chauhan


Tarique Akhter Deepak Yadav



Pankaj Gupta


Vikas Kumar Singh


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