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Q : 1) Minimum value of superelevation of a road with premix carpet surfacing is

A : 7.0%

B : 2.0%

C : 3.0%

D : 0.5%

Q : 2) In pavement design depth of pavement influenced by

A : Wheel load

B : Tyre pressure

C : Number of lanes

D : Both (a) and (b) above

Q : 3) The distance travelled by revolving the wheel of a vehicle more than the circumferential movement is

A : Slip

B : Skid

C : Neither (a) nor (b)

D : Both (a) and (b)

Q : 4) The compensated gradient on a horizontal curve of 100 m radius, if the ruling gradient provided on the road is 4% is

A : 2.7%

B : 3%

C : 3.25%

D : 4%

Q : 5) What is the exceptional gradient in plain terrain?

A : 1 in 20

B : 1 in 15

C : 1 in 12

D : 1 in 16.7

Q : 6) For the designing of valley curves, the height of headlight above the road surface is assumed at

A : 0.15 m above the road surface

B : 1.2 m above the road surface

C : 0.75 m above the road surface

D : 1.5 m above the road surface

Q : 7) The diameter of a mandatory sign disc must be

A : 50 cm

B : 60 cm

C : 30 cm

D : 100 cm

Q : 8) An engineering survey is proposed in a highway alignment project. The survey include following stages:

- 1. Preliminary survey**
- 2. Reconnaissance**
- 3. Map study**
- 4. Final location & detailed survey.**

**The sequential order of the stages in which the engineering survey is carried out is :
(Use codes 1 to 4 for answering)**

A : 2 – 1 – 3 – 4

B : 1 – 3 – 2 – 4

C : 2 – 3 – 1 – 4

D : 3 – 2 – 1 – 4

Q : 9) If the free flow speed is given as 20 kmph, what will be the speed at maximum flow?

A : 10 kmph

B : 20 kmph

C : 40 kmph

D : 5 kmph

Q : 10) While planning on locating major 'routes' in a city, which one of the following traffic survey schemes is most relevant?

A : Traffic volume survey

B : Origin and destination survey

C : Speed survey

D : Traffic capacity survey

Q : 11) For determining spot speed in traffic engineering, which one of the following equipment's is useful?

A : Endoscope

B : Periscope

C : Radar

D : Tachometer

Q : 12) 30th highest hourly volume means annual average daily traffic exceeded

A : 29 times in an hour

B : 29 times in a year

C : 30 times in an hour

D : 30 times in a year

Q : 13) The signs having red border and black symbols on white background are

A : Warning signs

B : Mandatory signs

C : Informatory signs

D : None of the above

Q : 14) At a road junction, 16 cross conflict points are severe, if

A : Both are one-way roads

B : One is two-way road and other is one-way road

C : Both are two-way roads

D : Both are four lane roads

Q : 15) Vehicle damage factor (VDF) as given by I.R.C, is used in:

A : Westergaard's analysis

B : CBR method

C : Design of drainage system

D : Design of dowel bars

Q : 16) As per IRC : 67-2001, a traffic sign indicating the speed limit on a road should be of

A : Circular shape with red background and white border

B : Triangular shape with red-background and white border

C : Circular shape with white background and red border

D : Triangular shape with white background and red border

Q : 17) In rotary intersection the weaving length is

A : The length between the ends of the channel islands in front of two consecutive entry and exit

B : The perimeter of the center line of the road circumfering the central island

C : The distance between two opposite roads

D : The width of the road between the central island and the channel island.

Q : 18) On a road the free speed was 65 kmph and the space headway at jam density was 6.25 m. What is the maximum flow which could be expected on this road?

A : 2600 vehicles per hour

B : 1625 vehicles per hour

C : 1300 vehicles per hour

D : 406 vehicles per hour

Q : 19) In one-street parking, maximum vehicles per unit length of kerbs can be parked with an angle of:

A : 60°

B : 0°

C : 90°

D : 45°

Q : 20) Prohibitory sign is meant to :

A : Restrict speed of vehicle

B : Warn road users of certain hazardous conditions

C : Prohibit parking of vehicles

D : Prohibit certain traffic movement

Q : 21) The maximum number of passenger car that can pass a given point on a roadway during one hour under the most ideal roadway and traffic conditions, is called

A : Possible capacity

B : Basic capacity

C : Parking geometries

D : All of the above

Q : 22) The “Give way” is traffic signs provided on the road:

A : Mandatory

B : Cautionary

C : Warning

D : Informatory

Q : 23) The direct interchange ramp involves-

A : Diverging to right and merging from the right

B : Diverging to right and merging from the left

C : Diverging to left side and merging from the right

D : Diverging to left side and merging from the left

Q : 24) On a right angled road intersection with two way traffic the total number of conflict points including the pedestrian conflicts are

A : 18

B : 32

C : 4

D : 16

Q : 25) Grade separation

- 1. Is for crossing traffic**
- 2. Is to minimize delay and hazard**
- 3. A cheaper option**
- 4. Increases discomfort and inconvenience**

A : 1 and 3

B : 2 and 3

C : 1 and 2

D : 3 and 4

Q : 26) Traffic conflicts the may occur in a rotary inter-section are

A : Merging and diverging

B : Crossing and merging

C : Crossing and diverging

D : Crossing, merging and diverging

Q : 27) With increase in speed of the traffic stream, the minimum spacing of vehicles

A : Increases

B : Decreases

C : First decreases and then increases after reaching a minimum value at optimum speed

D : First increases and then decreases after reaching a maximum value at optimum speed

Q : 28) When speed of traffic flow becomes zero, then –

A : Traffic density and traffic volume both attain maximum value

B : Traffic density attains maximum value but traffic volume becomes zero

C : Traffic density and traffic volume both become zero

D : Traffic density becomes zero but traffic volume attains maximum value

Q : 29) The height of mandatory traffic sign discs above the ground level should be:

A : 2.5 m

B : 2.8 m

C : 3.5 m

D : 3.8 m

Q : 30) On highways the sign of “Dead slow” is a :

A : Regulatory sign

B : Warning sign

C : Information sign

D : None of these

Q : 31) The IRC recommendation for warning sign is expressed by

A : Circle on top

B : Triangle on top

C : Rectangle on top

D : Square on top

Q : 32) Speed and delay study is conducted by which of the following method / instrument:

A : Floating car method

B : Works pot interview method

C : Doppler radar

D : Electronic detector

Q : 33) Consider the following statements regarding pavements:

- 1. Rigid pavements have good night visibility than flexible pavements**
- 2. It is possible to make cross cutting of the rigid pavement.**
- 3. In a flexible pavement, any deformation in the top layers is transferred to the underlaid layers; but, in rigid pavements, there is slab or beam action due to which any deformation is only in the top layer of the concrete slab.**

Which of the above statements are correct?

A : 1 and 2

B : 2 and 3

C : 1 and 3

D : 1, 2 and 3

Q : 34) In signal design as per Indian roads congress specifications, if the sum of the ratios of normal flows to saturation flow of two direction traffic flow is 0.50 and the total lost time per cycle is 10 seconds, the optimum cycle length in seconds is:

A : 100

B : 80

C : 60

D : 40

Q : 35) A traffic rotary is justified where-

A : Number of intersecting roads is between 8 & 10

B : Space is limited and costly

C : When traffic volume is > 6000

D : When traffic volume is having lowest limit of 500 vehicles per hour

Q : 36) Equivalent factor of PCU for trucks is

A : 0.5

B : 1

C : 3

D : 4

Q : 37) Match the items in List-I (Method of traffic survey) with those in List-II (Type of traffic survey), and select the correct answer using code in lists.

List-I	List-II
P. Doppler radar	1. Traffic volume
Q. Video tape	2. Origin destination survey
R. Pneumatic tube	3. Parking survey
S. Road side interview	4. Spot speed

A : P-1, Q-3, R-4, S-2

B : P-4, Q-3, R-1, S-2

C : P-3, Q-4, R-1, S-2

D : P-4, Q-2, R-3, S-1

Q : 38) 'Kiss and ride' is an example of _____.

A : Angle parking

B : Peripheral parking

C : On street parking

D : Off street parking

Q : 39) The softening point of bitumen can be determined by using:

A : Viscometer

B : Ring and ball apparatus

C : Penetrometer

D : Briquette mould

Q : 40) Name the test conducted on bitumen using the Pensky-martens closed cup apparatus?

A : Softening point test

B : Viscosity test

C : Flash and fire point test

D : Specific gravity test

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