1 The recommended camber for water-bound macadam road is :

A : 1 in 40 to 1 in 50
B : 1 in 33 to 1 in 40
C : 1 in 25 to 1 in 33
D : 1 in 20 to 1 in 25

2 The ideal form of the curve to the summit curve is :

A : Spiral
B : Parabola
C : Circle
D : Lemniscate

3 The camber form hill road in case of bituminous surface is adopted as :

A : 0.02
B : 0.025
C : 0.03
D : 0.035

4 The centrifugal force in a car moving in a horizontal circular curve is proportional to :

$$A : \frac{Wv^2}{(gR)}$$
$$B : \frac{Wv}{(gR)}$$
$$C : \frac{Wv^2}{(gR^2)}$$
$$D : \frac{Wv}{(gR^2)}$$

5 Camber in the road is provided for :

A : Counteracting the centrifugal force
B : Effective drainage
C : Having proper sight design
D : Avoiding overturning.

6 What is psychological widening of a pavement on horizontal curve of radius 230m for ruling speed 80 kmph?

A : 0.455.
B : 0.555m
C : 0.186m
D : 0.136m

7 What will be the shift of transition curve. If the length of transition curve is 80 m and radius of the curve is 300m?

A : 0.011
B : 0.78
C : 0.89
D : 21.33

8 Which instrument is used for the measurement of the longitudinal coefficient of friction?

A : Bump integrator
B : Both bump integrator and roughometer
C : Roughometer
D : Speedometer

9 Which of the following is correct statement for the cross-slope of the shoulder?

A : It is 1% flatter than the cross slope of pavement
B : It's minimum value is 2%
C : It is 0.5% steeper than the cross slope of the pavement
D : Its value is equal to the cross slope of pavement

10 Calculate the design rate of super elevation (%) on a highway in a pain terrain, if design speed of the highway is 80 kmph ans radius of the curve is 400m.

A : 7
B : 7.11
C : 8.2
D : 12.6

11 Right of way is the summation of the width of

A : Carriage way and shoulder
B : Carriage way, shoulder and road margins
C : Carriage way and road margins
D : Road margins and shoulder

12 Gradient on a highway is 1 in 20. Radius of the curve in 200m. After grade compensation the grade to be provided should nor be less than 4%. Calculate the grade compensation.

A : 0.0038
B : 0.0115
C : 0.04-----------63
D : 0.05

13 A flower segregates traffic with respect to

A : Direction
B : Grade
C : Speed
D : Class of vehicle

14 The shape of the STOP sign according to IS:67-2001 is

A : Circular
B : Triangular
C : Rectangular
D : Octagonal

15 If L is the length of vehicles in meters C in the clear distance between two consecutive vehicle (stopping sigh distance), V is the speed of vehicle in km per hour, the maximum number N of vehicle/hour is_____

$$A : N = \frac{1000V}{L+C}$$
$$B : N = \frac{L+C}{1000V}$$
$$C : N = \frac{L+C}{1000V}$$
$$D : N = \frac{1000C}{L+C}$$

16 The traffic volume of a roadway is distance as the multiplication of

A : Speed and time headway
B : Speed of distance way
C : Traffic density and speed
D : Time head way and distance headway

17 In CBR teat, the value of CBR is calculated at

A : 2.5 mm penetration only
B : 5.0 penetration only
C : 7.5 penetration only
D : Both 2.5 mm and 5.0 mm penetrations

18 The penetration test on bitumen is used for determining its _____

A : Grade
B : Ductility
C : Viscosity
D : None of these

19 Which of the following property of bitumen related to Pensky - Marten test?

A : Ductility
B : Softening point
C : Flash and fire point
D : Viscosity

20 In the softening point test of the bitumen with the help of ring ball apparatus, what is the diameter (cm) of the steel ball?

A : 0.35
B : 0.65
C : 0.95
D : 1.25

21 Which one of the following tests, is used to test aggregates for its abrasion resistance.

A : Deval attrition test
B : Dorry abrssion test
C : Loss angeles test
D : All of these

22 What is percentage content of asphalt in the cut-back asphalt?

A : 0.1
B : 0.3
C : 0.5
D : 0.8

23 What is the approximate bitumen content (expressed in percentage) in the refined asphalt?

A : 5
B : 20
C : 36
D : 52

24 When the bituminous surfacing is done on already existing black top road or over existing cement concrete road, the type of treatment to be given is:

A : Tack cost
B : Spray of emulsion
C : seal cost
D : Prime coat

25 In highway construction on super elevated curves, the rolling, shall proceed form:

A : Side towards the center
B : Centre towards the sides
C : Lower edge towards the upper edge
D : Upper edge towards the lower edge

26 Expansion joint are provided if the length of concrete structures exceeds:

A : More than 10 m
B : More than 15 m
C : More than 35 m
D : More than 45 m

27 Identity which of the following items in not considered while designing rigid pavements:

A : Centre of panel
B : Edge of the panel
C : Corner of the panel
D : Dowel bar between edges

28 Calculate the equivalent radius (cm) if the resisting section of 20 cm slab, if the ratio of radius if wheel load distribution the thickness of the slab is 2.

A : 20
B : 35.6
C : 40
D : 40.9

29 The value of rigidity factor for design purpose, if the tyre pressure is grater than 0.7 Mpa is_____.

A : Grader than 1
B : Less than 1
C : Equal to 1
D : Zero

30 The surface where two successive placements of concrete meet are known as:

A : Construction joint
B : Expansion joint
C : Construction joint
D : Both construction and expansion joint

Que. 1 : Answer : 2

Que. 2 : Answer : 3

Que. 3 : Answer : 2

Que. 4 : Answer : 1

Que. 5 : Answer : 4

Que. 6 : Answer : 2

Que. 7 : Answer : 3

Que. 8 : Answer : 2

Que. 9 : Answer : 3

Que. 10 : Answer : 1

Que. 11 : Answer : 2

Que. 12 : Answer : 1

Que. 13 : Answer : 2

Que. 14 : Answer : 4

Que. 15 : Answer : 1

Que. 16 : Answer : 3

Que. 17 : Answer : 4

Que. 18 : Answer : 1

Que. 19 : Answer : 3

Que. 20 : Answer : 3

Que. 21 : Answer : 4

Que. 22 : Answer : 2

Que. 23 : Answer : 4

Que. 24 : Answer : 1

Que. 25 : Answer : 3

Que. 26 : Answer : 4

Que. 27 : Answer : 1

Que. 28 : Answer : 3

Que. 29 : Answer : 2

Que. 30 : Answer : 3