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**Q : 1) For night travel, the length of a valley curve should be such that, the head-light beam distance is the same as**

**A : Stopping sight distance**

**B : Overtaking sight distance**

**C : Sum of (a) and (b)**

**D : Difference of (a) and (b)**



# HIGHWAY ENGINEERING GEOMETRIC DESIGN

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Daily Class – 8:00 PM

**Q : 2) On a circular curve, the rate of super elevation is 'e' while negotiating the curve, vehicle comes to a stop. It was observed that the stopped-vehicle is sliding inwards in radial direction. If the coefficient of friction is 'f' which of the following is true?**

**A :  $e > f$**

**B :  $e < f$**

**C :  $e < 2f$**

**D : None of these is correct**



**Q : 3) If the cross slope of a terrain is 20%, according to IRC classification, it is**

**a:**

**A : Plain terrain**

**B : Rolling terrain**

**C : Mountainous terrain**

**D : Steep terrain**



**Q : 4) According to Indian Road congress, the width of carriageway is**

**(i) 3.75 m for single lane**

**(ii) 7.0 m for two lanes without raised kerbs**

**(iii) 7.5 m for two lanes with raised kerbs**

**Which of these statement(s) is/are true?**

**A : (i) and (ii)**

**B : (ii) and (iii)**

**C : (i) and (iii)**

**D : (i), (ii) and (iii)**



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**Q : 5) A line, on either side of the road between which an the road, no building activity is permitted at all, is called as**

**A : Carriage way**

**B : Control line**

**C : Building line**

**D : Road way**



**Q : 6) What is the value of camber that should be provided in case of WBM pavement surface in an area of heavy rainfall?**

**A : 1 in 30**

**B : 1 in 48**

**C : 1 in 60**

**D : 1 in 72**



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**Q : 7) Which one of the following is not a type of transition curve used?**

**A : Clothoid**

**B : Parabolic**

**C : Lemniscates**

**D : Cubic parabola**



**Q : 8) The instrument used to measure Roughness index is**

**A : Profilometer**

**B : Deflectometer**

**C : Brinellnometer**

**D : Bump integrator**



**Q : 9) If sight distance  $S$  is equal to the length  $2l$  of the vertical curve joining the two grade  $g_1\%$  and  $g_2\%$  the height of apex will be:**

**A :** 
$$\frac{(g_1 - g_2)l}{200}$$

**B :** 
$$\frac{(g_1 - g_2)l}{400}$$

**C :** 
$$\frac{(g_1 - g_2)l}{800}$$

**D :** 
$$\frac{(g_1 - g_2)l}{2S}$$



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**Q : 10) Design speed of National Highway and state highway roads for plain terrain is ..... For rural highways.**

**A : 40 to 50 kmph**

**B : 80 to 100 kmph**

**C : 30 to 65 kmph**

**D : 65 to 85 kmph**



**Q : 11) What is the limiting gradient recommended by Indian roads congress for roads in plain terrain?**

**A : 5.0%**

**B : 4.0%**

**C : 6.0%**

**D : 4.5%**





**Q : 12) Lag distance is the distance travelled**

**A : During application of brakes**

**B : During PIEV time**

**C : During overtaking**

**D : During night**



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**Q : 13) The side drains are provided on both the sides of the roadway, when the road is**

**A : Along salient curve**

**B : In cutting**

**C : Along re-entrant curve**

**D : All of these**



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**Q : 14) Grade compensation is not necessary for gradients less than**

**A : 1%**

**B : 2%**

**C : 3%**

**D : 4%**



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**Q : 15) The shoulder provided along the road edge should be**

**A : Rougher than the traffic lanes**

**B : Smoother than the traffic lanes**

**C : Of same colour as that of the pavement**

**D : Of very low load bearing capacity**



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Daily Class – 8:00 PM

**Q : 16) The maximum rate of change of radial acceleration allowed on transition curves is:**

**A :  $100\text{mm}/\text{sec}^3$**

**B :  $300\text{mm}/\text{sec}^3$**

**C :  $400\text{mm}/\text{sec}^3$**

**D :  $500\text{mm}/\text{sec}^3$**



**Q : 17) While designing a highway, identify the factor which is not taken into account for the computation of breaking distance?**

**A : Reaction time of driver**

**B : Gradient**

**C : Co-efficient of friction**

**D : Speed**



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Daily Class – 8:00 PM

**Q : 18) The rate of equilibrium super-elevation on a road is**

- 1. Directly proportional to the square of vehicle velocity**
- 2. Inversely proportional to the radius of the horizontal curve**
- 3. Directly proportional to the square of the radius of the horizontal curve**

**Which of the above statements are correct?**

**A : 1 and 2 only**

**B : 1 and 3 only**

**C : 2 and 3 only**

**D : 1, 2 and 3**



**Q : 19) A barrel camber consists of**

**A : Two straight slopes joining at the centre**

**B : Two straight slopes with a parabolic crown in the centre**

**C : A continuous curve either parabolic or elliptical**

**D : None of the above**





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Daily Class – 8:00 PM

**Q : 20) In urban areas, when the volume of cycle traffic is high, minimum width provided for the cycle track is:**

**A : 3.5 m**

**B : 3.0 m**

**C : 2.0 m**

**D : 1.5 m**

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