

TE QUESTION BANK

1. What are the significant recommendations of jayakar committee report ? how this helped in road development in India .
2. From the following data for a district , calculate the road length required based on Nagpur road plan.Total area=6300 km²,Agricultural area= 2800 km², No. of villages with population ranges <500, 501-1000, 1001-2000, 2001-5000 and above 5001 are 450, 320, 110, 50 and 10 respectively.Length of railway track = 75 km
3. Explain the different modes of transportation. Explain various road patterns. Which factors control the alignment of roads ?
4. Calculate the length of transition curve for a plain and rolling terrain for the following data: Design speed=80kmph, radius of curve =250 m , road width=7 m , max allowable rate of super elevation 1 in 150 Assume pavement is rotated with respect to centerline.
5. A state highway passing through a rolling terrain has a horizontal curve of radius equal to the ruling minimum radius. If the design speed is 100 kmph. Calculate min sight distance, super elevation, extra widening and length of transition curve.
6. The speed of overtaking vehicle is 70 kmph. If the acceleration of overtaking vehicle is 0.95 m/s². Calculate (a)Safe overtaking sight distance (b)minimum length of overtaking zone (c)desirable length of overtaking zone on a two way and one way traffic road.
7. Calculate the extra width of pavement required on a horizontal curve of radius 700 m on a two lane highways, the design speed being 80kmph. Assume wheel base=6 m.
8. Define the camber and what is objective of camber.
9. What are the different agencies related to highways in india?
10. Explain the role of transportation in the economic and social activities of the country.
11. Explain traffic volume study.
12. Describe CBR method adopted for design of flexible pavement.
13. Describe warping stress and frictional stress.
14. Write any six causes of accidents.
15. Describe resisting length of hill road and road side drains in hill roads.
16. Explain objects of traffic volume study.