

UNIT-II

S.No.	Questions	BTL	CO	PO
Part-A(Short Answer Questions)				
1	List the various assumptions in the analysis of safe Overtaking Sight Distance.	1	2	1
2	2. Calculate the extra width required for a two lane highway having a horizontal curve of radius	1	2	1
3	200m,if the design speed is 80 Kmph.	2	2	1
4	3. What are the design issues in highway geometrics?	2	2	1
5	4. Define stopping sight distance		2	1
Part-B(Long Answer Questions)				
6	Explain PIEV Theory and the total reaction time of driver .	2	2	2
7	Calculate the length of transition curve using the following data: Design speed =65 Kmph,			
8	Radius of circular curve = 220m, pavement width including extra widening = 7.5 m, allowable	2	2	2
9	rate of introduction of super elevation (pavement is rotated about the centerline) is 1 in 150.	3	2	2
10	With the help of a neat sketch, explain the attainment of super elevation in the field.	3	2	3
11	Calculate the length of vertical valley curve required between -1/30 and +1/25 grades for a speed of	3	2	2