

END SEMESTER EXAMINATION(ESE),Nov. – 2022

Course Name: Highway and Traffic Engineering

Course Code: 201CEL303

Day and Date: Saturday, 10/12/2022

Seat No:

Time: 10am to 12.30pm

Max. Marks- 50

Instructions:

- i. Question No. 1&2 is compulsory.
- ii. Figure to the right indicate full marks.

BT	CO's	Q.No.		Marks
		Q.1	All Questions are compulsory	20
3	CO1	a	Explain the factors Affecting Alignment of Road.	6M
3	CO1	b	Design the rate of super elevation by IRC method for horizontal curve of radius 500 m and speed 90kmph.	7 M
3	CO2	c	Enlist various tests on bitumen and explain any two in detail.	7 M
			Unit: 1,2,3	
		Q.2	All Questions are compulsory	10
3	CO2	a	Explain the factors affecting pavement design.	6
3	CO2	b	Write a difference between rigid and flexible pavement. OR Explain the various types of joints in rigid pavement.	4
			Unit: 4	
		Q.3	All Questions are compulsory	10
2	CO3	a	Explain in detail premix method Bituminous Macadam or Bitumen Bound Macadam OR Explain process of cement concrete pavement construction.	6
2	CO3	b	Explain the process of Sub grade and sub base construction with MORTH specifications.	4
			Unit: 5	
		Q.4	Attempt any two out of three questions	10
2	CO4	a	Define Traffic Volume, Traffic Density, Traffic capacity and PCU.	5
2	CO4	b	Explain traffic volume study and speed studies.	5
2	CO4	C	Explain the types of intersection in detail.	5
			Unit: 6	