Reg. No.	
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13690

Question Paper Code

13690

M.E - DEGREE EXAMINATIONS, APRIL / MAY 2025

Second Semester

Industrial Safety Engineering 24PISEL201– TRANSPORT SAFETY

Regulation - 2024

Duration: 3 Hours	Max. Marks: 100			
PART - A $(10 \times 2 = 20 \text{ Marks})$ Answer ALL Questions		Marks	K – Level	со
1. State the importance of the transport emergency card.		2	<i>K1</i>	COI
2. Write the leading causes of road accidents.		2	K1	COI
3. Write down the key factors contributing to pedestrian safety.		2	<i>K1</i>	CO2
4. State the psychological factors affecting driver behavior and safety.		2	K2	CO2
5. Define defensive driving.		2	K1	CO3
6. Describe the purpose of traffic signs and signals.		2	<i>K</i> 2	CO3
7. Define noise pollution.		2	K1	CO4
8. Identify the cause of accidents by pedestrians.		2	<i>K</i> 2	CO4
9. Define Chicane.		2	<i>K1</i>	CO5
10.List the disadvantages of one-way streets.		2	<i>K1</i>	CO5
PART - B (5 × 13 = 65 Marks) Answer ALL Questions 11. a) Discuss the liability issues and legal implications for stakeholinvolved in the transportation of hazardous goods. OR	olders	13	<i>K3</i>	CO1
b) Evaluate the role of training and certification programs for persinvolved in the transportation of hazardous goods.	onnel	13	K5	CO1
12. a) Discuss the importance of road safety regulations in reducing accidents and fatalities.	traffic	13	К3	CO2
OR				
b) Discuss the benefits and challenges of implementing autonovehicles for enhancing road safety.	mous	13	K3	CO2
13. a) Discuss the role of driver fatigue in road accidents, and prestrategies to mitigate its impact on road safety. OR	opose	13	К3	CO3

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

13 CO3 b) Analyze the relationship between driver education and road safety outcomes, including attitudes, knowledge and skills. CO4 14. a) Illustrate the details that have to be collected while conducting parking 13 inventory survey with a neat sketch. OR b) Summarize the different methods of collecting Origin Destination (OD) 13 CO4 studies with its significance. 15. a) Discuss in detail the various methods of traffic regulatory measures 13 CO5 traffic management. OR *K3* CO5 b) Sketch with conflicts points for pedestrians and vehicles and explain ¹³ them. PART - C $(1 \times 15 = 15 \text{ Marks})$ 16. a) Compare and contrast the transportation of hazardous goods by road, 15 CO6 rail, air and sea in terms of safety measures and regulations. OR CO6 b) Assess the effectiveness of road safety campaigns and public awareness 15 initiatives in changing driver behavior.