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						Reg. No.											
			Questi	on Paper	Code	12	2645	5									
M.E DEGREE EXAMINATIONS, APRIL / MAY 2024																	
						emester											
M.E Industrial Safety Engineering																	
20PISEL201 – TRANSPORT SAFETY																	
Regulations - 2020																	
Duration: 3 Hours Max. Marks: 100																	
PART - A (10 × 2 = 20 Marks) Answer ALL Questions													М	Marks <sup>K–</sup> CO Level			
1.	Wha	at is the importance of transport emergency card?												2	<i>K1</i>	CO.	1
2.	List	the safety rules to be followed during servicing of a vehicle.												2	K2	CO.	1
3.	Expl	lain road ecology.												2	K2	CO.	2
4.	Wha	at do you understand by the term "Gross vehicle weight"?												2	K1	CO	2
5.	Writ	ite the data's are collected during accident report.												2	K1	CO.	3
6.	Defi	ine occupational accident.												2	K1	CO.	3
7.	· · · · · · · · · · · · · · · · · · ·										n	2	K1	CO	4		
8. What factors should drivers consider when approaching and navigating through intersections?										g	2	K2	CO	4			
9.	9. Mention the important factors for analyzing material handling problem.												2	K2	CO.	5	
10. Define the process of battery charging.													2	K1	CO.	5	
11	PART - B (5 × 13 = 65 Marks) Answer ALL Questions											12	V2	CO	1		
11.	a)	In the design and implementation of transport emergency cards (TECs) for hazardous materials shipments, what engineering considerations should be taken into account to ensure their effectiveness in emergency response situations? OR								g	13	V2	CO.	l			
	b)	Elucidate the electricity in	-		-		-		ente	d b	y s	stat	ic	13	К3	CO.	1
12.	a)	Evaluate the	root cause	behind o	occurre OR	nce of roa	ıd a	ccid	lents	5.				13	K5	CO.	2
	b)	Examine the motor vehic comprehensi	le insuran	ce polici	surance	•	-							13	K4	CO.	2
K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create										12645							

13. a) Examine the important factors considered to selection criteria process <sup>13</sup> K4 CO3 for the drivers.

### OR

- b) Discuss the role of technology, such as emergency notification <sup>13</sup> K3 CO3 systems and geographic information systems in enhancing emergency planning capabilities.
- 14. a) Investigate the importance of proactive foresight and financial <sup>13</sup> K4 CO4 planning for pavement maintenance and rehabilitation, driven by pavement condition data.

#### OR

- b) What is an intersection? Explain in detail any two classification of <sup>13</sup> K<sup>3</sup> CO<sup>4</sup> intersection.
- 15. a) Identify the parameters which influence the safety during inspection <sup>13</sup> K<sup>3</sup> CO<sup>5</sup> and testing of mechanical handling equipment.

## OR

b) Examine the factors influence in safety during the operations of <sup>13</sup> K4 CO5 gasoline handling.

# **PART - C (1×15 = 15 Marks)**

16. a) Explain in detail the motor vehicles act 1988 by citing a practical <sup>15</sup> K2 CO6 example from present day road transport scenario.

#### OR

b) Discuss in detail the motor vehicle insurance and surveys. 15 K3 CO6