

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
Diploma Engineering, Mid semester Examination

Semester: 4th

Date: (20/01/2022)

Subject Code: 3605255

Times: (7.50 AM to 9.20 AM)

Subject Name: Transportation Engineering

Total Marks: 40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

Q.1 Answer any six out of Ten. (2 Marks Each)	(12)	Co/Po Name	Blooms Taxonomy Words
1. Define general classification of road.		CO1	Knowledge
2. Explain classification of road Based on Tonnage.		CO1	Apply
3. List of drawings Prepared for finalizing road alignment.		CO3	Apply
4. Which are the modes of Transportation?		CO4	Knowledge
5. What is purpose of proving camber?		CO2	Create
6. Express definition of Sleeper Density.		CO1	Knowledge
8. Enlist types of rails.		CO3	Apply
9. Write necessity of Ballast?		CO2	Create
10. Explain classification of road based on Highway location.		CO1	Apply
Q.2 A) State the requirement of good road alignment?	(03)	CO2	Knowledge
OR			
A) How express way differs from regular highway?	(03)	CO4	Understand
B) Classifications of Indian Railways.	(03)	CO4	Understand
OR			
B) Explain Engineering surveys for location of highway alignment.	(03)	CO1	Apply
C) Express classification of road based on Highway location and function.	(04)	CO1	Knowledge
OR			
C) Draw figure of permanent way with components.	(04)	CO2	Create
D) Explain in classification of road based on tonnage and traffic as per IRC guideline.	(04)	CO1	Apply
Q.3 A) Enlist factor affecting road alignment and define any two with appropriate figure.	(03)	CO3	Apply
OR			
A) Explain Railway Gauges and Uniformity of Gauge.	(03)	CO1	Apply
B) Enlist types of sleepers and explain any one.	(03)	CO3	Understand
OR			
B) Define scope of transportation engineering in civil?	(03)	CO1	Knowledge
C) List out Zones of Indian Railways.	(04)	CO3	Apply
OR			
C) A meter gauge railway track has sleeper density of (n + 5). Determine the number of sleepers required for 15.0 km long railway track.	(04)	CO1	Evaluate
D) Requirement of the ideal permanent way.	(04)	CO1	Knowledge

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(12)

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