

Seat No: _____

Enrollment No: _____

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

Semester: 5th
Subject Code: 03605331
Subject Name: Highway Engineering

Date: (dd/mm/yyyy)
Time: (1hr: 30min)
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)
	1. What is highway Engineering?	
	2. What is the purpose of providing camber?	
	3. What is NH, SH.?	
	4. Define Cut-back Bitumen.	
	5. What is MDR, ODR, VR?	
	6. What is road Alignment?	
	7. List of drawings for finalizing road alignment	
	8. List out tests on road material.	
	9. List out methods of road Drainage.	
	10. Define Cut-back Bitumen.	
Q.2	A) Importance of roads or highways.	(03)
	OR	
	A) Characteristics of Roads Transport.	(03)
	B) Explain the Lucknow Road Plan	(03)
	OR	
	D) Explain the Bombay Road Plan	(03)
	F) Requirements of Road Alignment.	(04)
	OR	
	C) List out Factors Affecting Road Alignment? Explain Any two	(04)
	D) Explain type of road material.	(04)
Q.3	A) Write a Short note on Impact Test.	(03)
	OR	
	A) Derive the procedure of CBR test.	(03)
	B) Difference between Flexible Pavements and Rigid Pavements	(03)
	OR	
	B) What are the Requirements of a Good Road Pavement?	(03)
	C) Draw figures of flexible and rigid pavement.	(04)
	OR	
	C) Write importance of Road Side Drainage.	(04)
	D) Describe sub surface drainage and explain any one with Figure.	(04)

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