

CRM08

Rev 1.8

Civil Engg

15-11-2022

CONTINUOUS INTERNAL EVALUATION- 1

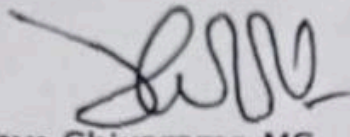
Dept: CV	Sem / Div: 5 sem	Sub: Highway Engg	S Code: 18CV56
Date: 23-11-22	Time: 3.00-4.30	Max Marks: 50	Elective: N

Note: Answer any 2 full questions, choosing one full question from each part.

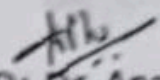
QN	Questions	Marks	RBT	CO's
PART A				
1	a Explain the characteristics of road transport	8	L2	CO1
	b Describe the role of transportation in social and economic development of the country.	8	L2	CO1
	c Determine the length of different categories of roads in a state in India by the year 2021 as per 3 rd twenty year road plan. The area of state is 3,08,000 km ² . Number of towns as per 1981 census was 276. Overall road density aimed at 82 km per 100 km ² .	9	L3	CO1
OR				
2	a Detail the planning surveys for a highway project	8	L2	CO1
	b Briefly mention the various classification of roads.	8	L2	CO1
	c Write short notes on i) Jayakar Committee ii) Road patterns iii) Saturation System	9	L2	CO1
PART B				
3	a Explain obligatory points in alignment of roads	8	L2	CO3
	b With neat sketches illustrate different cross section elements of road.	8	L2	CO3
	c Calculate the OSD for a design speed of 96 kmph. Assume all other data suitably.	9	L3	CO3

OR

4 a	Illustrate the role of pavement surface characteristics in highway geometric design	8	L2	CO3
b	Sketch and brief the factors controlling the road alignment	8	L2	CO3
c	A vehicle is moving at 55 kmph on a single lane pavement of width 4m on a level surface. The reaction time is 2.3 sec and coefficient of longitudinal friction is 0.39. Determine the intermediate sight distance.	9	L3	CO3



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