	Enrollma	ent No:	Evo	m Seat No:					
						-			
		C.U.SI	HAH UNI	VEKSII	Y				
	Winter Examination-2019								
	Subject I	Name: Highway Engine	ering						
	Subject Code: 4TE04HYE1		Branch	Branch: B.Tech (Civil)					
	Semester	r: 4 Date: 24/09	/2019 Time: 0	2:30 To 05:30	Marks: 70				
	Instructio	ons:							
	(1) U	Use of Programmable calc	ulator & any other el	ectronic instrumen	t is prohibited.				
		nstructions written on ma			•				
		Draw neat diagrams and f		nt right places.					
	(4) A	Assume suitable data if ne	eded.			_			
Q-1		Attempt the following	_			(14)			
	a)	What do you mean by P				(1)			
	b)	Define safe passing sigh				(1)			
	c) d)	Define highway engined What is super elevation	_			(1) (1)			
	e)	Define ruling gradient.				(1)			
	f)	What do you mean by A	DT?			(1)			
	g)	Define highway capacity				(1)			
	h)	What is traffic density?	, -			(1)			
	i)	What is plate-bearing te	st?			(1)			
	j)	Define emulsion.				(1)			
	k)	What do you mean by E	SWL?			(1)			
	l)	What is traffic control d	evice?			(1)			
	m)	What is surface drainage	?			(1)			
	n)	What is PPP?				(1)			
Attei	mpt any f	Cour questions from Q-2	to Q-8						
Q-2		Attempt all questions				(14)			
	A)	Discuss about various ro	ad authorities workir	ng in highway plan	ning and	(7)			
	,	development in India.			-				
	B)	i) Explain PIEV theory.				(7)			
		ii) Enumerate the advan	tages and disadvantag	ges of WBM road.					
Q-3		Attempt all questions				(14)			

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Q-2		Attempt all questions	(14)
	A)	Discuss about various road authorities working in highway planning and development in India.	(7)
	B)	i) Explain PIEV theory.ii) Enumerate the advantages and disadvantages of WBM road.	(7)
Q-3		Attempt all questions	(14)
	A)	Explain the classification of roads based on location and function as suggested in the Nagpur Road Plan.	(7)
	B)	Discuss about maintenance of highway along with failures of flexible and rigid pavements.	(7)
Q-4		Attempt all questions	(14)
	A)	Discuss about various engineering surveys to be carried out before a highway alignment is finalized in highway project.	(7)
	B)	Explain obligatory points. With sketches, discuss how these control the alignment.	(7)
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