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		HIGHWAY ENGINEERING 5 th Exam/Civil/2515/May'18	
			M.Marks:75
		SECTION-A	
Q1.	a) F	ill in the blanks.	15x1=15
	i.	NHAI is under the control of	
	ii.	Bitumen containing mineral matter is known as	
	iii.	Road side development is termed as	
	i۷.	The stone wall constructed to protect the hill slope is	
	٧.	The first stage of route selection is	
	vi.	Crushed rock is a road aggregate.	
	vii.	Map shows the contours of the area.	
		MOST signifies	
	ix.	WBM road is an example of	
		Compaction of concrete pavements is done by	
	•	State True or False	
		Reconnaissance is also referred as "Recci".	
	xii.	The maximum allowable super elevation is seven percent in plain area.	
	xiii.	Cutbacks can be used without heating.	
		Gradient should always be greater than camber.	
	XV.	Landslide is one of the major problems of hill roads.	
		SECTION-B	
Q2.		empt any six questions.	6x5=30
	-	What are different causes of failure of bitumen roads?	
		What is the necessity of road drainage?	
		Explain stopping sight & passing sight distance.	
		Explain the importance of soil stabilization.	
		Explain the functions of IRC.	
		What is Super elevation & why it is provided?	
	_	Differentiate between breast wall & retaining wall.	
	h.	What is sub grade & what are its functions?	
		SECTION-C	
Q3.		empt any three questions.	3x10=30
		Explain with sketches, various methods of drainage of a hill road.	
		What is land slide? Give causes, prevention & control measures of landslide	
		Define soil erosion. What are the important methods to control soil erosion	ገ !
		Explain various defects & their remedial measures in a rigid pavement.	
	V.	Explain soundness test with neat sketch.	