IAT-1./2019/	
Highway Engineering 150063/6th semester	Masses
Parel A Ca carte	2 shoot
Q.1 (1) CRRI - Central good research institute	09
- One of the national laborationer of the council of Scientific and Industrial	
(i) IRC - Indian tooad congress formed on 1934. Details: works, function etc.	09
1934. Details: worred on 1939 to	04
(11) Mofor vehicle act: Formed on 1939 to tregulate laws on traffic Details.	0.4
(iv) Highway Research Board: HRB Na.	04
1973.	
(v) Central road fund: It was formed on 1929.	04
defails:	
Paret B	
0.2(a)_(i) 20 year plan (1943-1963)	05
(ii) formulation of Hoad length	05
2 (a) NH+SH +MDR = $\left[\frac{A}{8} + \frac{B}{32} + 1.6N + 8T\right] + D - R$	
2(b) (a) Ractangular or block pattern	
6 Radial pattern aidblock pattern C Radial and circular pattern	05
@ Radial and good pattern & minimum travel pattern. @ Hexagonal pattern & minimum travel pattern.	

MARKS CO RBT	MARKS	Part B	stions from y.	er any TWO que sing data suitabl PART A	PART A is compulsory and answer any TWO questions from Part B Assume any missing data suitably. PART A	1
OBF	VI		Sem/Sec:	Max Marks: 50	06/03/2019 Duration: 90 min's	Date: (
CIVIL	Branch:	15CV63	Sub Code:	RING	HIGHWAY ENGINEERING	Sip:
		2019	st 1 - March	Internal Assessment Test 1 - March 2019	Iṇterna	
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(b)		2. (a
) With neat sketches, explain different road patterns. [05]		2. (a) Describe salient features of Nagpur road plan. How the road length is [10]
] (100	1

PART B

development of India.

Signature of C		4.	(b)	3. (a)
Signature of CCI	cross section elements.	1	tertiary road network. Calculate the stopping sight distance on highway at a descending gradient of 2% for a design speed of 80 Kmph. Take reaction time as 2.5 seconds and co-	Determine the lengths of different categories of roads in a state in India by 2001 plan. The total area of the State is 80,000 sq.km and number of towns as per 1981 census is 86. Calculate the length of primary, secondary and
Signature of HOD		[05+10] CO2	[07]	[08]
Ď		CO2	CO2	COI

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