

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Mid Semester Examination – Sept./Oct. 2019

Course: B. Tech in _CIVIL ENGINEERING

Sem: V

Subject Name: Transportation Engineering

Subject Code: BTCVC505

Max Marks:20

Date:-25/09/2019

Duration:- 1 Hr.

Instructions to the Students:

1. All Questions are compulsory.
2. Draw neat and clean diagram if necessary.
3. Assume suitable data wherever necessary

	Level BT	CO BTCVC 505.	Marks
Q.1 Answer in one sentence (All Questions carry equal marks)			6
1. What is Cross Slope or Camber	1	3	
2. How much should be the Width of pavement or carriageway?	1	3	
3. Define reaction time of driver	1	3	
4. Define super elevation	1	3	
5. what is Stopping sight distance	1	3	
6. Enlist various types of tests on Aggregates	1	2	
Q.2 Solve Any Two of the following.			3 X 2 = 6
(A) Discuss classification of roads as per Nagpur road plan.	2	1	
(B) Explain PIEV theory in detail	2	3	
(C) Write short note on Shape test of aggregates (Flakiness index and Elongation index)	2	3	
Q.3 Solve Any One of the following.			8
(A) The speed of overtaking and overtaken vehicles are 70 and 40 kmph, respectively on a two-way traffic road. The average acceleration during overtaking may be assumed as 0.99 m/sec^2 . Calculate safe overtaking sight distance and minimum length of overtaking zone ?	3	3	
(B) A national highway passing through rolling terrain in heavy rain fall area has a horizontal curve of radius 500 m. Design the length of transition curve assuming suitable data.	3	3	
*** End ***			