

**APJ ABDULKALAM TECHNOLOGICAL UNIVERSITY
08 PALAKKAD CLUSTER**



Q. P. Code : TE0819219-I

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Name:

Reg. No:.....

THIRD SEMESTER M.TECH. DEGREE EXAMINATION December 2019

Branch: Civil Engineering

Specialization: Transportation Engineering

08CE7219 LOW VOLUME ROADS

(Common to TE)

Time:3 hours

Max. marks: 60

Answer all six questions.

Modules 1 to 6: Part 'a' of each question is compulsory and answer either part 'b' or part 'c' of each question.

Q.no.	Module 1	Marks
1.a	What are the requirements of alignment between two points?	3
	Answer b or c	
b	Explain the approach for network connectivity of habitations.	6
c	What are the data to be collected to prepare a master plan of a rural road?	6
Q.no.	Module 2	Marks
2.a	What is the importance of widening of curves?	3
	Answer b or c	
b	Compare the cross sectional elements of a road in plain and mountainous terrain with diagram	6
c	Calculate the total superelevation required on a road curve of 300m radius for a vehicle speed of 80 km/h. The width of the road is 15m and the coefficient of friction is 0.15.	6
Q.no.	Module 3	Marks
3.a	What are the different soil investigations to be carried out?	3

