

Code No: 155DJ**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year I Semester Examinations, September - 2021****TRANSPORTATION ENGINEERING****(Civil Engineering)****Time: 3 Hours****Max. Marks: 75**

Answer any five questions
All questions carry equal marks

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1. Briefly explain about the current road development plans in India. [15]
2. What are the various surveys to be carried out before planning a highway system for a given area? [15]
3. Derive an expression for computing overtaking sight distance on a two way road. Support your answer with a neat sketch showing overtaking process. [15]
4. Calculate the length of transition curve for a design speed of 80 kmph at horizontal curve of radius 300m in a rural area. Assume suitable data. [15]
5. Discuss briefly about the warrants for signalization. [15]
6. Write a short note on on-street and off-street parking facilities. [15]
7. Explain the test procedure for determining California Bearing Ratio value of soil. [15]
8. State the stepwise recommended design procedure for rigid pavements for highways. [15]

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