

SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

SEMESTER END EXAMINATIONS (REGULAR), NOVEMBER - 2016

B.PLANNING, II YEAR III SEMESTER

TRAFFIC & TRANSPORTATION PLANNING (BPLN305)

Maximum Marks – 50

Time – 2.00 Hours

a) Answer any *Two* questions out of *1 to 4* questions.

b) Question No.5 is compulsory and answer any four out of six sub-questions.

c) Scientific Calculators are allowed.

- Q1. What is a transportation system? Explain various transport (15M) problems & issues facing the country today.
- Q2. What are the various types of sight distance? Find (15M) minimum sight distance to avoid head-on-collision of 2 cars approaching at 90 kmph & 60 kmph. Given, $t = 2.5$ sec, $f = 0.7$ and brake efficiency of 50% in either case.
- Q3. Explain concept of level of service through relationship (15M) between traffic flow, density & speed.
- Q4. Explain the various approaches to manage traffic in cities (15M) through appropriate examples.
- Q5. Write short notes on any FOUR of the following: (4x5= 20M)
- a) Classified Volume Count
 - b) Origin-Destination survey analysis
 - c) Road hierarchy in rural & urban areas
 - d) Vertical curves & summit curves
 - e) Superelevation
 - f) Types of intersections
