

VI SEMESTER B.TECH (AERONAUTICAL AND AUTOMOBILE ENGINEERING) END SEMESTER EXAMINATIONS, JAN/MAY 2016

SUBJECT: VEHICLE TRANSPORT MANAGEMENT [AAE 382]

REVISED CREDIT SYSTEM

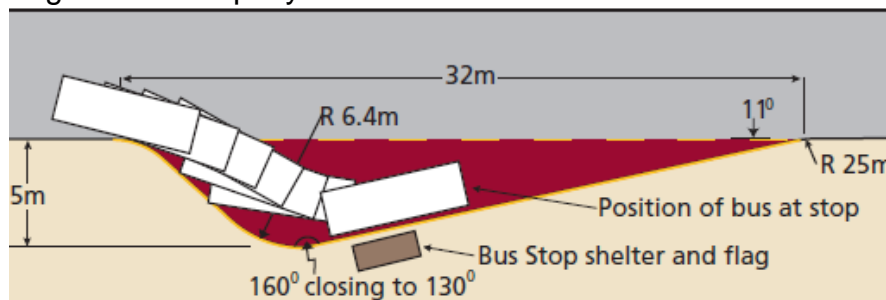
Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ANY FIVE FULL** the questions.
- ❖ Missing data may be suitable assumed.

- 1A. What are the basic conditions should satisfy by the Public Transport company? (02)
- 1B. List the different types of buses. (03)
- 1C. Explain about historical background and working of Cable trams (05)
- 2A. Name the given bus stop layout. (02)



- 2B. Mention the factors to be considered for Bus stop Locations. (03)
- 2C. Draw the Layout of Drive through type Bus station and write its advantages and disadvantages. (05)
- 3A. Write the possible solutions following in Public transport Department to avoid Accidents. (02)
- 3B. Explain the Bell punch system. (03)
- 3C. Write the Functions and capabilities of Almex control Systems Transfare or Farestram. (05)
- 4A. How to estimate the Traffic volume while planning the Route. (02)

4B. Explain how the Public Transport department will respond to Public letters. **(03)**

4C. A bus has to visit 5 cities Udupi, Mangalore, Mysore, Mandya and Bangalore. **(05)**
The distance between the cities is given in the table.

	Udupi	Mangalore	Mysore	Mandya	Bangalore
Udupi	-	30	60	20	30
Mangalore	30	-	50	20	30
Mysore	60	50	-	60	40
Mandya	20	20	60	-	60
Bangalore	30	30	40	60	-

Write the sequence and calculate the shortest route.

5A. What is meant by Duty Roster? **(02)**

5B. Write the factors affecting punctuality of bus and crew members **(03)**

5C. List and explain the Strategies of fare structure. **(05)**

6A. Write the Variables affecting the Cost per vehicle mile. **(03)**

6B. Find the Initial Basic Feasible Solution for the given Matrix using Vogel's **(07)**
Approximation Method (VAM), North West Corner Method (NWCM) & Matrix
Minimum Method. Compare the results and suggest the best method among
VAM, NWCM & MMM.

	1	2	3	
A	25	23	31	3
B	12	32	43	6
C	10	45	42	9
D	30	50	33	12
	7	15	8	