Reg. No.										
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## Manipal Institute of Technology, Manipal



(05)

(02)

(A Constituent Institute of Manipal University)

## VI SEMESTER B.TECH (AERONAUTICAL AND AUTOMOBILE ENGINEERING) END SEMESTER EXAMINATIONS, JUN/JULY 2016

SUBJECT: VEHICLE TRANSPORT MANAGEMENT [AAE 382] REVISED CREDIT SYSTEM

Time: 3 Hours							MAX. MARKS: 50				
				Ins	struction	ns to Candie	dates:				
	✤ Answer ANY FIVE FULL the questions.										
	<ul> <li>Missing data may be suitable assumed.</li> </ul>										
A.	Who	is	responsible	for	Public	Relational	work	in	Public	Transport	(02)

- 1A. Who is responsible for Public Relational work in Public Transport (02) Department?
- **1B.** Mention the facilities available in the Trams.(03)
- **1C.** Explain the historical background of Horse trams
- **2A.** Name the given bus stop layout.



2B.	Draw the Layout of Bus Garage.	(03)
2C.	Write The sequence for a typical service line operation.	(05)
3A.	What are the modifications done in the Buses to avoid Accidents?	(02)
3B.	What is meant by Ticket? Write the information available in the Tickets.	(03)
3C.	Explain the features available in Ticket Issue Machines	(05)
4A.	How to conduct time test while planning Route.	(02)
4B.	Write the different ways to achieve The Dissemination of information to the public?	(03)

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

				U	<u> </u>	
		Udupi	Mangalore	Mysore	Mandya	Bangalore
Udupi		-	20	50	10	20
Mangalore		20	-	40	10	20
Mysore		50	40	-	50	30
Mandya		10	10	50	-	50
Bangalor	е	20	20	30	50	-

Write the sequence and calculate the minimum time require to visit all cities.

5A. List the basic types of purchase methods.

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- 5B. Explain the Middle road type of Strategy of fare structure.
- 5C. The bus timing between cities A and B is given in the Table:

TIME TABLE – ROUTE A TO B										
A dep	7.5	8.5	9.5	12.5	4.5	6.5	7.5	9.5		
B arr	8.0	9.0	10.0	1.0	5.0	7.0	8.0	10.0		
B dep	8.15	9.15	10.15	1.15	5.10	7.10	8.10	10.10		
A arr	9.10	10.10	11.10	2.10	6.0	8.0	9.0	11.0		
	Week	days	Weekd	ays and	nd	Weekdays				

Find the following:

1) the number of buses required to satisfy the requirement in entire week

- 2) the number of buses required to satisfy the requirement during weekend onlv
- 3) the number of buses required to satisfy the requirement during weekdays only
- **6A.** Write the different Methods of making Provisions in Transportation. (03)
- (07) **6B.** Find the optimal transportation cost by using MODI method for the give IBFS **—**

	D1	D2	D3	D4	D5	
01	12	8	11	18	11	6
02	14	22	8	12	14	2
O3	14	14	16	14	15	4
04	19	11	14	17	15	10
O5	13	9	17	20	11	9
	2	8	7	10	4	

(02)

(03)

(05)