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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

Seventh Semester, B.E. - Automobile Engineering

Semester End Examination; Dec. - 2015

Vehicle Transport Management

Time: 3 hrs

Max. Marks: 100

Note: Answer any **FIVE** full questions, selecting at least **TWO** full questions from each part.

PART - A

- 1 a. Briefly discuss the Historical background and Growth of networks of public transport. 10
- b. Explain the 11th schedule of MVA 1988. 10
- 2 a. How the different type of roads will fulfill the requirements of transport sector. Justify with examples. 10
- b. What are the types of maintenance? Explain their objectives, advantages and disadvantages. 10
- 3 a. Explain different forms of ownerships with examples in relation to transport organization. 10
- b. Explain the following: 10
 - i) Centralized control
 - ii) Decentralized control
- 4 a. What is route planning? List the factors considered while fixing a new route. 6
- b. Discuss the steps involved in estimating the traffic flow with example. 6
- c. Define Timings, Bus workings and schedules with suitable examples. 8

PART - B

- 5 a. What are the principles of fare collection? 5
- b. List out the different methods of fare collection system. Explain any two of them. 7
- c. Explain the following: 8
 - i) Straight scale and tapered scale
 - ii) Standard fare table and Anomalous double booking.
- 6 a. Discuss the classification of costs related to the road transport organization. 10
- b. Explain the following : 10
 - i) Depreciation
 - ii) Obsolescence
 - iii) Factors affecting cost per vehicle mile
- 7 a. Explain the importance of public relation department in order to build up a good will about the organization. 10
- b. Discuss the factor which influence the accidents and explain the preventive steps in order to avoid the same. 10
- 8 a. Explain the Buses and coaches on the basis of types and capacities. 10
- b. Explain the steps involved in design of future vehicle to fulfill the environment and social issues. 10