

U.S.N 

--	--	--	--	--	--	--	--	--	--



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

(An Autonomous Institution affiliated to VTU, Belagavi)

**Seventh Semester, B.E. - Automobile Engineering**

**Semester End Examination; Jan. / Feb. - 2021**

**Transport Management and Motor Vehicle Act**

*Time: 3 hrs*

*Max. Marks: 100*

*Note: Answer FIVE full questions, selecting ONE full question from each unit.*

### UNIT - I

- |      |                                                                                               |    |
|------|-----------------------------------------------------------------------------------------------|----|
| 1 a. | Illustrate the various modes of transport in India.                                           | 10 |
|      | b. Discuss the prevention and analysis of road accidents.                                     | 10 |
| 2 a. | Identify the types of garage and with the help of suitable diagram explain the garage layout. | 10 |
|      | b. Illustrate with a sketch, the bus station detailing the amenities provided.                | 10 |

### UNIT - II

- |      |                                                                                                                                                         |    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 3 a. | Enumerate and analyse the different forms of ownership for a public transport undertaking.                                                              | 10 |
|      | b. Explain the key criterion for staff selection and training.                                                                                          | 10 |
| 4 a. | “Maintaining of good will is significant in public transport organization”. Evaluate the statement and discuss the steps in the handling of complaints. | 10 |
|      | b. List and discuss the key factors affecting punctuality of public transport vehicles.                                                                 | 10 |

### UNIT - III

- |      |                                                                                                             |    |
|------|-------------------------------------------------------------------------------------------------------------|----|
| 5 a. | What is route planning? Illustrate the key factors to be considered for planning a new route.               | 10 |
|      | b. Explain the concept of flat graph and graph of overlaps.                                                 | 10 |
| 6 a. | Identify and explain the challenges associated with preparation of vehicle and crew schedule.               | 10 |
|      | b. Explain the factors affecting frequency and estimate the traffic volume in public transport undertaking. | 10 |

### UNIT - IV

- |      |                                                                                                  |    |
|------|--------------------------------------------------------------------------------------------------|----|
| 7 a. | Discuss in brief the methods of fare collection systems.                                         | 10 |
|      | b. Discuss the concept of fare structure and highlight the reasons for concession fares.         | 10 |
| 8 a. | Discuss the challenges related to economic consideration of public transport undertaking.        | 10 |
|      | b. Analyse the influence of mileage on operating cost per mile for public transport undertaking. | 10 |

### UNIT - V

- |       |                                                                                   |    |
|-------|-----------------------------------------------------------------------------------|----|
| 9 a.  | Discuss the laws governing to use motor vehicle and transport.                    | 10 |
|       | b. Explain the responsibilities of driver and conductor.                          | 10 |
| 10 a. | Discuss the key points in registration of vehicles, state and interstate permits. | 10 |
|       | b. Illustrate the important aspects in taxation and insurance of vehicles.        | 10 |

\* \* \*