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#### B.TECH (SEM VII) THEORY EXAMINATION 2022-23 URBAN TRANSPORTATION PLANNING

Time: 3 Hours

Note: Attempt all Sections. If require any missing data; then choose suitably.

#### SECTION A

#### 1. Attempt *all* questions in brief.

- (a) Write the nature of traffic problem in cities.
- (b) List the role of transportation on the basis of social aspect
- (c) Define traffic flow.
- (d) What do you mean by IPT?
- (e) Write the difference between MRTs and BRTS.
- (f) What is trip generation?
- (g) Define travel demand.
- (h) What is net present value?
- (i) Define modal split.
- (j) Define travel demand

# SECTION B

### 2. Attempt any *three* of the following:

- (a) Write an Overview of transportation system Prevailing in India.
- (b) Explain zoning and study area.
- (c) What are the factors governing Trip generation and Attraction rates?
- (d) Draw the flow diagram for modal split carried out between trip generation and Trip distribution and explain.
- (e) Explain the difficulties in Transport Planning.

## SECTION C

# 3. Attempt any *one* part of the following:

- (a) Explain the Different modes of surface transport.
- (b) Discuss about Land Use Transport Planning.

#### 4. Attempt any *one* part of the following:

- (a) What are the goals and objective of Transport Planning?
- (b) Explain any two growth factors methods and any one synthetic method.

 $2 \ge 10 = 20$ 

105x3= 30

Total Marks: 100

Sub Code:KCE-076
Roll No.



10 x 1= 10

10 x 1= 10

#### 5. Attempt any *one* part of the following:

- (a) List the different assignment techniques and explain any one assignment techniques.
- (b) Discuss the traffic assignment application in India.

### 6. Attempt any *one* part of the following: $10 \times 1 = 10$

- (a) Explain the surveys that are usually carried out during Urban transport Planning.
- (b) Explain planning aspects of transportation system in smart cities.

#### 7. Attempt any *one* part of the following: $10 \times 1 = 10$

- (a) Explain the independence of Land use and traffic.
- (b) Define system approach. Explain the system approach to transport planning with a flow diagram.

