

Q-4 **Attempt all questions** (14)

A) Develop regression equation. (7)

Population in zone (in 1000)	10	15	20	22	25
Trips (in 100)	8	10	13	12	15

B) Explain aggregate and disaggregate approach for travel demand. (7)

Q-5 **Attempt all questions** (14)

A) Explain various steps involved in Transportation Planning Process with flow charts (7)

B) Explain by drawing curve accuracy is checked by screen line analysis of O&D studies data. (7)

Q-6 **Attempt all questions** (14)

A) Describe in brief corridor identification and corridor screen line analysis. (7)

B) Explain factors affecting the choices of travel mode. (7)

Q-7 **Attempt all questions** (14)

A) While travel forecasting is necessary? Explain average growth factor method and Furness method (7)

B) Explain problems in urban transportation in the present scenario. (7)

Q-8 **Attempt all questions** (14)

A) Write a note on Ahmedabad BRTS project with its operation and working. (7)

B) A self-contained city having four residential zones A,B,C and D, two industrial estates X and Y, the generation equation shows that trips from home to work from each residential area are given below during 24 hours per day. There are 3690 jobs in X zone and 4495 job in Y zone. It is also known that attraction between zones is inversely proportional to square of journey times between zones. The journey time is mentioned below:

Zones	X	Y
A	14	19
B	16	11
C	9	11
D	14	21

Calculate the interzonal trips for home to work by gravity model.

A=1,000, B=2245, C=1750, D=3190

