BE Semester-VII

(CIVIL ENGINEERING)

Question Bank

(E. P. I (Transportation Engineering– I**)**
CODE :- CE705

All questions carry equal marks(10 marks)

Q.1	Explain the basic components of traffic flow.
Q.2	Explain the Physical road user characteristics.
Q.3	Explain psychological road user characteristics.
Q.4	Explain PIEV theory.
Q.5	Explain physical characteristics of vehicles.
Q.6	Explain operating characteristics of vehicles.
Q.7	Explain environmental characteristics.
Q.8	Define:- Speed, Volume, Density, Time headway, space headway.
Q.9	Explain the speed-volume-density relationship with sketch.
Q.10	Differentiate between Homogeneous and Heterogeneous traffic flow with sketch.
Q.11	What are the purposes of Traffic volume study?
Q.12	Explain various methods of Traffic volume counts.
Q.13	Enlist the methods of finding spot speed study. Explain any two.
Q.14	Enlist the methods of O-D study. Explain any two.
Q.15	Enlist the methods of travel time and delay study. Explain any two.
Q.16	What are the safety measures should be adopted for prevention of accidents?
Q.17	Write a short note on "Rotary Intersection".

Q.18	Write a short note on "Road lighting"
Q.19	Briefly explain about the VISSIM and MX Road software.
Q.20	Write short note on "Road Safety Audit"
Q.21	What do you understand by Level of Service? Explain the concept as per HCM.
Q.22	Explain the various functions of Traffic Control Devices.
Q.23	Explain the classifications of Traffic Signs with neat sketch.
Q.24	Explain the various types of pavement marking with sketch.
Q.25	Explain various type of Traffic Islands.
Q.26	What are the elements of speed control? Explain.
Q.27	Explain the methods of off street parking control.
Q.28	Explain the methods of curb parking control.
Q.29	What are the advantages and dis advantages of one way street?
Q.30	What is capacity of road? Explain the types of capacity.
Q.31	What are the advantages and dis advantages of Rotary intersection?
Q.32	Explain the classifications of intersection at grade.
Q.33	Write short note on "Grade Separated Intersection".
Q.34	Write a short note on "Tidal Flow Arrangement".
Q.35	Write a short note on "Bus stop location and bus bay".

Q.36	What do you understand by PCU? Explain the factors affecting PCU?
Q.37	Explain about the TRANS-CAD software with its applications.
Q.38	Write a short note on "Vehicle Operating Cost".
Q.39	Define – Cycle length, Load factor, Peak hour factor, Lost time, Intergreen period, Effective green time, Saturation flow.
Q.40	Explain the steps of Webster method of signal design.