Regulation R18 *Subject code: 2E8AA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B. Tech VIII Semester Supplementary Examinations, May 2026

TRAFFIC ENGINEERING & MANAGEMENT

(CE)

Maximum Marks: 70 Date:04.05.2026 Duration: 3 hours

Note: **1.This question paper contains two parts A and B.**
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

	Part-A	
All the following questions carry equal marks		(10X2M=20 Marks)
1	Write about critical gap.	
2	Define Time mean speed.	
3	What is meant by highway capacity?	
4	Define Traffic volume.	
5	List out various measures that may be taken to prevent accidents?	
6	Write about the following: a. Parking accumulation b. Parking Load	
7	What is lost time is traffic signal?	
8	What is meant by simple progression system?	
9	Define Intelligent Transportation System (ITS) in Traffic engineering with any two of its applications.	
10	What is meant by traffic regulations?	
	Part-B	
Answer All the following questions.		(10MX 5=50Marks)
11	Discuss the relation between parameters of Traffic-Volume, Speed and Concentration.	(10M)
	OR	
12	Explain the procedure for conducting spot speed studies. How do you analyze the Spot speed data. (10M)	
13	Write the procedure to compute the Level of Service for two lane highways. (10M)	
	OR	
14	Explain about the operating conditions for Level of Service which was selected by HCM.	(10M)
15	What are different types of parking surveys? Explain each in detail. (10M)	
	OR	
16	Distinguish in detail between collision and condition diagrams with neat sketch. (10M)	

17	Explain the design procedure of Isolated Traffic signals by Webster method. (10M)
	OR
18	Write the principles of phasing. Explain with timing diagram. (10M)
19	Write a brief note on: i) Vehicle licensing (5M) ii) Tidal Flow (5M)
	OR
20	Explain what is the significance of traffic management? Write the various travel demand management techniques commonly used in managing traffic on roads. (10M)