

Enroll No

K.E.Society's  
**Rajarambapu Institute of Technology, Rajaramnagar**  
 (An Empowered Autonomous Institute, affiliated to SUK)  
**Mid-Sem Exam (MSE) (2025-26)**

Q.P.Code
M 22

Final Year B.Tech. Computer Science & Engineering

**Course Code: AI407**      **Course Name: PE- III Intelligent Transportation System**

Day & Date: Thursday, 18/09/2025

Time: 3.15 PM to 5.15 PM

Max Marks- 50

- Instructions:**
- 1) All questions are compulsory.
  - 2) Figures in rounded ( ) brackets within the question, indicate the scheme of marking for respective part of the question, whereas, figures in the first right column indicate total marks for that whole question.
  - 3) CO is the index number of the Course Outcome statement.
  - 4) The Bloom's taxonomy level (BL) for 1, 2,3,4,5 and 6 is remembered, understand, apply, analyze, evaluate and create respectively.
  - 5) Assume suitable data if necessary.
  - 6) Use of non-programmable calculators is allowed

**Q.1 Attempt the following**

	Marks	BT Level	COs
A Listing out IOT devices used in transportation (4) & Express any two IOT devices used in transportation in detail (4)	8	2	CO_1
<b>OR</b>			
A Enlist different components of ITS (4) & Explain their infrastructure in detail (4)	8	1	CO_2
B Explain challenges in modern transportation systems in details.	8	3	CO_1

**Q.2 Attempt the following**

A Express Vehicle to Infrastructure (V2I) communication in detail.	8	3	CO_3
B Express different roles of AI & ML in ITS	9	2	CO_2
<b>OR</b>			
B Explain following protocols & Networks in details	9	1	CO_1
1. 4G (3)			
2. Wi-Fi (3)			
3. Bluetooth (3)			



**Q.3 Attempt the following**

- A Differentiate of IOT in transforming transportation (4) & roles of AI & ML in ITS (4) 8 1 CO\_2
- B Explain following protocols & Networks in details 9 2 CO\_2
1. MQTT (3)
  2. CoAP (3)
  3. HTTP/REST (3)

