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Bengaluru

Mid Term Examinations - October 2026

Date: 06/10/2026 **Time:** 09:30 AM - 11:00 AM

Course Code: ECE6014 **Course Name:** Autonomous Technologies and Advanced Driver Assistance Systems

Semester: Third Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2
Marks	48	42

PART-A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	Which year was the Development of driverless vehicles was discussed due to large number of accidents caused by the carelessness of drivers in USA.	2	CO1	BT1
2	Breifly mention the features of SAE Level 5	2	CO1	BT2
3	Define Sensor Fusion	2	CO2	BT2
4	Define features of Automotive Radar works on Higher frequency (77GHz)	2	CO1	BT2
5	Define Perception Pipeline in autonomous driving	2	CO1	BT2

PART-B: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	With neat diagram Discuss the SAE Levels of Autonomous Driving	10	CO1	BT2
7	Discuss the Radar Application Scenarios with neat diagram.	10	CO1	BT2

PART-C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	With neat diagram Illustrate the Perception Pipeline.	10	CO1	BT2
9	With neat diagram explain the working of Fisheye Camera systems .	10	CO1	BT2

PART-D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	Discuss the Fundamentals of Sensor Fusion.	10	CO2	BT2
11	With neat diagram Illustrate late fusion and hybrid fusion architectures	10	CO2	BT3

PART-E: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
12	With neat diagram explain the working of LiDAR in autonomous driving	10	CO2	BT2
13	Illustrate the design of Kalman Filter and Extended Kalman Filter (EKF) for sensor fusion.	10	CO2	BT3