UPES
End semester Examination, May2024

Programme Name: MTech E-mobility   Semester : 3ʳᵈ
Course Name :   Intelligent Transportation system   Time : 03 hrs.
Course Code   :   MEEM7008   Max. Marks: 100
Nos. of page(s) : 01

SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO
Q 1	Define vehicle platooning.	4	CO1
Q.2	Differentiate between GPS and GIS .	4	CO1
Q.3	Briefly describe the working of AHS.	4	CO2
Q.4	Briefly describe various aspects of CVO.	4	CO2
Q5	Enumerate the challenges of ITS in Indian scenario.	4	CO1

SECTION B
(4Qx10M= 40 Marks)

Q.6	Differentiate between ATIS and ATMS in ITS technologies	10	CO3
Q.7	Briefly discuss the standards of ITS in context of developing countries transportation system and compare them with the standards in developed countries	10	CO3
Q.8	Explain the following in context of ITS Architecture a) logical Architecture b) physical Architecture	10	CO2
Q.9	With suitable examples discuss the Future Trends and Advancements in Intelligent Transportation Systems and its effect in Indian context.	10	CO2
	OR		
	Discuss the working of automatic electronic toll collection system (ETC).	10	CO3

SECTION-C
(2Qx20M=40 Marks)

Q 10	Explain various levels of ADAAS along with its working of ADAAS system.	20	CO4

Q.11	How should secure interconnectivity between entities in autonomous and assisted driving system environment be kept and maintained?	20	CO4
	OR		
	Briefly explain the working of FASTAG with suitable diagram along with its various categories	20	CO4