Question Paper

Exam Date & Time: 08-Feb-2021 (10:00 AM - 01:15 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL SCHOOL OF INFORMATION SCIENCES, MANIPAL
FIRST SEMESTER MASTER OF ENGINEERING- ME (AUTOMOTIVE EMBEDDED SYSTEMS) DEGREE EXAMINATION FEBRUARY 2021

Vehicular Adhoc Networks [AES 602]

Marks: 100 Duration: 180 mins.

MONDAY, FEBRUARY 8, 2021

Answer all the questions.		
1)	Differentiate the characteristics of IVCs from that of MANETs? (TLO 1.1) (10 Marks)	(10)
2)	Define the significance of VANET? Write a note on the different VANET applications. (TLO 1.1) (2+8 Marks)	(10)
3)	Explain the working of the following protocols: (TLO 2.1) (5+5 Marks)	(10)
	a. Improved Greedy Traffic Aware Routing protocol (GyTAR).b. Edge Node Based Greedy Routing Protocol (EBGR).	
4)	Illustrate the steps involved in IP passing with the help of a flow chart. (TLO 2.1) (10 Marks)	(10)
5)	Distinguish the working of the following Localization Techniques for VANET: (TLO 1.4) (5+5 Marks)	(10)
	a. Global Positioning System b. Cellular Localization.	
6)	Explain the concept of Pulse Relay used in the Priority- Ensured Medium Access scheme. (TLO 3.2) (10 Marks)	(10)
7)	Describe the significance of layered software system architecture in Cooperative Vehicular safety applications and explain each layer's modules. (TLO 2.2) (10 Marks)	(10)
8)	Explain the working of following protocols for information transport in Information dissemination. (TLO 2.3) (5+5 Marks)	(10)

- a. Flooding b. Request/Reply
- Outline the key issues and different MAC metrics considered in (10) evaluating MAC proposals for VANETs? Explain. (TLO 3.2) (10 Marks)
- Write a note on the Delay Tolerant Network (DTN) and explain (10) its working. (TLO 2.3) (10 Marks)

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