Question Paper

MANIPAL ACADEMY OF HIGHER EDUCATION

SCHOOL OF INFORMATION SCIENCES

FIRST SEMESTER MASTER OF ENGINEERING - ME (AUTOMOTIVE EMBEDDED SYSTEMS)
Vehicular Adhoc Networks [AES 603]

Marks: 100   **Duration: 180 mins.**
END SEMESTER DEGREE EXAMINATION NOVEMBER 2018
Answer all the questions.

1) What is the importance of VANET? Explain briefly the challenges faced in the implementation of VANET.   (2+8)   (10)

2) What is Topology based routing protocol? Classify and explain the different types in it.   (2+8)   (10)

3) Explain the working of the following protocols: (5+5)   (10)

   a. Improved Greedy Traffic Aware Routing protocol (GyTAR).
   b. Adaptive Movement Aware Routing protocol (AMAR).

4) Write a note on the following with respect to Secure Position based routing: (5+5)   (10)

   a. Cryptographic protection
   b. Plausibility checks

5) What is the approach and outline of the Medium Access Control scheme for emergency message dissemination?   (10)

6) Explain the Neighbour topology awareness based algorithm in IP passing and name the various parameters used in it.   (10)

7) Explain clustering and beaconing with respect to information transport in VANETs.   (10)

8) Explain the working of Time-division multiple access (TDMA) system for MAC based approach.   (10)

9) Write a comparison between Curious hacker and Academic hacker.   (10)

10)   Mention the different FCC regulations regarding Road Side (10)
Units and On-board Units.

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