Code: 9D08206a

M.Tech II Semester Supplementary Examinations January/February 2017
WIRELESS NETWORK SECURITY
(Computer Networks)

Time: 3 hours   Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks
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1   (a)   What are the main vulnerabilities of wireless networks?
    (b)   What is the main weakness of the WEP protocol?

2   Discuss about the trends and security challenges in wireless networks.

3   (a)   Explain the various attacks on the naming and addressing.
    (b)   Design a trust mechanism to overcome black hole attack in ad hoc network.

4   Explain with example, the ARAN and SEED protocol. Compare its pros and cons.

5   Discuss about the matrices for security analysis. Explain the need for more rigorous analysis technique
          for ad hoc wireless network.

6   Discuss about any two solutions for privacy protection for low cost RFID tags and crypto enabled RFID
          tags.

7   (a)   Discuss on the mechanism to detect the selfish behavior of hot spots.
    (b)   Explain the operating principle of IEEE 802.11.

8   (a)   What are all the possible game theoretical strategies as a response to the observed traffic?
    (b)   Explain the corollary "Every node playing AIID is a Nash equilibrium" with required theorem and proof.

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