

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

- 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.
