

Roll No

IT-702 (GS)**B.E. VII Semester**

Examination, December 2017

Grading System (GS)**Wireless and Mobile Computing**

Time : Three Hours

Maximum Marks : 70

- Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) What is antenna? Give its types and their Radiation pattern. 7
b) Describe wireless propagation modes and explain how a signal radiated along these modes. 7
2. a) What is fading? Describe flat and selective fading. 7
b) What are the benefits of spread spectrum technique? Explain DSSS and FHSS techniques. 7
3. a) Name the main elements of the GSM system architecture and describe their functions. 7
b) Give reasons for a handoff in GSM and the problems associated with it. What types of handover can occur? 7
4. a) What do you understand by Wireless LAN? Write advantages and disadvantages of WLAN. 7
b) Explain architecture of Bluetooth networks. Discuss various applications of Bluetooth network. 7

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5. a) Explain the following. 7
i) Hidden and exposed terminals problems
ii) Near and far terminals problems
b) Discuss the requirements and architecture of HIRERLAN-1. 7
6. a) What is Adhoc network? Write characteristics and applications of Adhoc networks. 7
b) Describe snooping TCP. Write advantages and disadvantages of snooping TCP. 7
7. a) Explain intruder. Discuss intrusion detection techniques. 7
b) Write and explain Firewall design principles. 7
8. Write short notes on any two. 14
a) DHCP
b) CDMA
c) World Wide Web
d) Trojan Horse Defence

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