Total No. of Questions :5] [Total No. of Printed Pages :2

Roll No ....

IT-702

B.E. VII Semester
Examination, December 2016

Wireless and Mobile Computing

Time : Three Hours

Maximum Marks : 70

Note:
i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each question are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

1. a) What is Antenna?

   b) Write different types of fading. Explain how each one typically occurs.

   c) What is handoff? Explain different handoff initialization techniques with suitable diagram.

   d) Discuss the various effects of mobile radio propagation.

   OR

   Compare between SDMA, TDMA, FDMA and DAMA.

Unit - II

2. a) What is UMTS?

   b) What do you understand by Mobility Management?

   c) What is DECT and TETRA?

IT-702 PTO

[2]

   d) Describe the GSM network architecture in detail with the help of diagram.

   OR

   Discuss the different types of mobile service provided by GSM? Explain each in brief.

Unit - III

3. a) What is IEEE 802.11?

   b) Write about MAC sub layer.

   c) What will be the impact on piconet in Bluetooth devices are connected to mobile Units? Explain.

   d) Draw and explain HIPERLAN-2 protocol Stack.

   OR

   What are the MAC services of IEEE 802.11 that are not provided in the traditional LAN such as 802.3?

Unit - IV

4. a) What is WAP?

   b) Explain how Mobile Internet (Mobile IP) protocol works.

   c) Write a brief notes on Snooping TCP and Mobile TCP.

   d) What is DHCP? How does DHCP support dynamic address allocation?

   OR

   Explain how routing is performed on ad hoc networks.

Unit - V

5. a) What do you understand by term Intrusion detection?

   b) Write the different types of viruses.

   c) Write a brief notes on biometrics and authentication system.

   d) Define the three classes of intruders and mention the intrusion techniques to protect from the intruders.

   OR

   What is firewall? Explain the design principle of firewall.

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IT-702