

Roll No

IT - 702**rgpvonline.com****B.E. VII Semester**

Examination, December 2015

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 isotropic radiator? Draw radiation pattern of isotropic radiator.
- b) What is Fading? Define its types.
- c) Define types of radio propagation mechanisms.
- d) What is the process of handoff? Define types of handoff.

OR

Explain multiple access techniques such as SDMA, TDMA, FDMA and CDMA.

Unit - II**rgpvonline.com**

2. a) Differentiate HLR and VLR.
- b) Define handover in GSM system.
- c) List the important GSM air-interface standard specifications.

[2]

- d) Draw and explain the GSM network architecture.

OR **rgpvonline.com**

Explain the architecture of GPRS system. What are the enhancements over GSM?

Unit - III

3. a) Write WLAN advantages and disadvantages.
- b) Define HiperLAN Technology.
- c) What are the limitations of mobile TCP?
- d) Write and explain the four major challenges for implementing Wireless LAN.

OR

Draw and explain the architecture of 802.11a, 802.11b and 802.11c.

Unit - IV

4. a) Explain Deregistration process in mobile IP.
- b) Briefly explain applications of mobile IP.
- c) Define mobile TCP with its objectives.
- d) Write and explain seven major differences between MANET and Wireless Sensor networks.

rgpvonline.com OR

Draw a figure and explain the operation of mobile IP.

Unit - V

5. a) Write any five Viruses names and purpose.
- b) What are Worms? How to prevent them?
- c) Why Trojan Horse is harmful for computer?
- d) Explain intrusion detection system. How it works?

OR

Explain Firewall and what are the different types of Firewalls.
