Registration No.:					

Total number of printed pages - 2

B. Tech **PEIT 5402**

RAL LIBRY

I, GUM

Eighth Semester Regular Examination - 2015 **UBIQUITOUS COMPUTING**

BRANCH: IT

QUESTION CODE: J 245

Full Marks - 70

Time: 3 Hours

Answer Question No. 1 which is compulsory and any five from the rest. The figures in the right-hand margin indicate marks.

Answer the following questions: 1.

2×10

- List the limitation of GSM Network. (a)
- What is a Cell? How do you define the size of a cell? (b)
- Explain the mechanism of Packet delivery in Mobile IP. (c)
- What is the difference between soft handoff and hard handoff? (d)
- What is the difference between Mobile IP and Cellular IP? (e)
- What are the basic functions of WAP gateway? (f)
- What do you mean by BSS in Wireless LAN? (g)
- What are the advantages of WML Script over WML? (h)
- What is VPN and why it required? (i)
- Differentiate between Pico net and Scatter net. (i)
- Give an account of the three tier mobile computing architecture. 2. (a)
 - Differentiate between TCP and wireless TCP. (b)

5

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P.T.O.

What is Tunneling? What are the tunneling protocols that are used in a VPN 3. (a) 5 network? Discuss. Describe the working of Mobile IP with respect to the foreign agent and (b) 5 home agent. 5 4. (a) Describe the WAP protocol stack. 5 Compare GEO, MEO and LEO. (b) Explain the architecture of an infrastructure based IEEE802.11 wireless 5. (a) LAN with suitable example. 5 Explain the Bluetooth protocol stack, in detail, with suitable diagram. 5 (b) What are the different channel allocation strategies? Explain them by 6. (a) justifying their suitability over variant user load distributions. Illustrate the difference between frequency hopping spread spectrum and (b) 5 direct sequence spread spectrum. Write the GPRS architecture reference model. Further explain the network 7. signaling reference model for GPRS, in detail, with suitable diagram. 10 TRAL LIBO Write short notes on any two of the following: 5×2 8. (a) PCS Architecture Difference between Windows CE and Windows Mobile Operating System (b) (c) Features of WCDMA.