L 13/12/2011 BE CMPN VII (R) mobile computing

AGJ 2nd half (d+) 42

Con. 6529-11. (REVISED COURSE) MP–5605

(3 Hours) [Total Marks : 100

N.B. : (1) Question No. 1 is **compulsory**.
(2) Attempt any **four** questions out of remaining **six** questions.
(3) Make **suitable** assumptions wherever **necessary** and **clearly** justify **them**.

Q1.Solve any Four :

A. What is near far problem in CDMA system?
B. Explain frequency reuse concept in cellular system.
C. Write short note on wireless local loop.
D. Explain personal access communication system.
E. Explain signally system No. 7. 20

Q2.

A. Explain WATM reference model with several access scenarios. 10
B. Explain Qos in mobile reference. How to improve the Qos in mobile adhoc networks. 10

Q3.

A. Draw and Explain architecture of GPRS system. 10
B. Explain main features of 3rd Generation mobile phone system. How do they achieve higher capacities and higher data rates ? 10

Q4.

A. Compare IEEE 802.11, HIPER LAN 2 and Bluetooth with regards to their adhoc capabilities, where is the focus of these technologies. 10
B. i. Name basic applications of satellite communication and describe the trends. 10

ii. What are the general problems of satellite signals travelling from a satellite to a receiver?

Q5.

A. Why is routing in multishop adhoc networks complicated, what are the special challanges ? 10
B. Explain Hierarchical adhoc routing. 10

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Q6.

A. What are major differences between WAP 2.0, WAP 1.X and i-mode? What influenced the WAP 2.0 development? 10

B. i) What is mobile agent? What are the application domain in which Mobile Agent have potential development ? 05

ii) Explain Synchronize multimedia mark up language . 05

Q7.Write short note on any four: 20

A) M-commerce
B) Symbion OS
C) WML
D) Sync 4J
E) Wireless sensor Networks
F) Threats and security issued in Mobile computing.