

QP Code : 2991

(3 Hours)

[Total Marks : 100

- N.B. : (1) Question No. 1 is compulsory
 (2) Attempt any four out of remaining q.no. 2 to 7
 (3) Draw neat Sketches wherever required.
 (4) Assume suitable data if required.

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| 1. (a) Why is power control is important in CDMA? | 5 |
| (b) What is the difference between an ESS and a BSS in the IEEE 802.11? | 5 |
| (c) Discuss two evolution paths for the GSM to offer 3G Services. | 5 |
| (d) What is HSDPA? | 5 |
| 2. (a) Differentiate between frequency hopping and direct-sequence spread spectrum. | 10 |
| (b) What are various states in Bluetooth System? Explain difference between them. | 10 |
| 3. (a) What is a WPAN? What is the difference between WPAN and WLAN? Name two example technologies for WPAN. | 10 |
| (b) What is WAP? Discuss WAP architecture in brief. | 10 |
| 4. (a) What is the UMTS? List important features of the UMTS air interface. | 10 |
| (b) Discuss forward and reverse link channels in the cdma 2000 | 10 |
| 5. (a) Explain Bluetooth protocol stack | 10 |
| (b) Explain sensor network protocol stack in detail. | 10 |
| 6. (a) Explain link budget analysis and requirements of wireless networks. | 10 |
| (b) Discuss WiMAX. What are the main differences between the IEEE 802.116 (Wi-Fi) and WiMAX? | 10 |
| 7. Write short notes on | |
| (a) IEEE Project 802 | 10 |
| (b) RFID | 10 |