**Code No: IT17412s**

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (Autonomous)**

**B.E.(IT)IV/IV I Sem (Suppl) Examination May - Jun 2017**

**Mobile Computing**

**Time: 3 Hours Max Marks:75**

***Note:*** Answer all questions from **Section-A** at one place in the same order

Answer any **five** questions from **Section-B**

**Section - A (25 Marks)**

|  |  |  |
| --- | --- | --- |
| 1 | Write short notes on near and far terminals. | (2) |
| 2 | Define TDMA . | (2) |
| 3 | What is the main reason for the failure of many MAC schemes known from wired networks when used in wireless networks? | (2) |
| 4 | Write short notes on digital music players. | (3) |
| 5 | Write the features of HSPA 3G network. | (3) |
| 6 | What is tunneling and encapsulation? | (3) |
| 7 | Explain about selective re transmission. | (2) |
| 8 | Discuss about data cache invalidation mechanisms. | (2) |
| 9 | What is PIM? | (3) |
| 10 | Give the implications on mobility. | (3) |

**Section - B (50 Marks)**

|  |  |  |  |
| --- | --- | --- | --- |
| 11 | (a) | Explain about cellular architectures and discuss about CDMA. | (5) |
| (b) | Compare and contrast SDMA , FDMA and TDMA. | (5) |
| 12 | (a) | Describe about wimax 802.16 m networks. | (5) |
| (b) | What are hidden and exposed terminals? How MAC solves these problems? | (5) |
| 13 | (a) | Discuss about mobile IP briefly. | (5) |
| (b) | What is IPV6? Explain. | (5) |
| 14 | (a) | Explain the fast retransmit / fast recovery mode with respect to duplicate acknowledgements in mobile IP. | (5) |
| (b) | Discuss about transaction oriented TCP. | (5) |
| 15 | (a) | Explain about data HOARDING techniques. | (5) |
| (b) | Write about power aware and context aware mobile computing. | (5) |
| 16 | (a) | Discuss about classification of data delivery mechanisms. | (5) |
| (b) | Explain about GSM architecture. | (5) |
| 17 | (a) | Write short notes on Symbian OS, apple iphone 4 | (6) |
| (b) | State the features of mobile smart phones. | (4) |

**\*\*\*\*\*\***