**Code No.: IT17412**

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

**B.E.(IT) IV/IV I Sem (Main) Examination Nov 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)**

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| 1 | Define SDMA,TDMA,FDMA | (3) |
| 2 | Draw the structure of MAC? What is the function of medium access control layer | (3) |
| 3 | Which applications and industries will use RFID technologies in the near future? | (2) |
| 4 | List out services provided by GSM | (2) |
| 5 | Define the terms foreign agent, co-located agent and home agent is applied to mobile network | (3) |
| 6 | Define Reverse Tunneling? | (2) |
| 7 | What is snooping TCP? | (2) |
| 8 | Explain about PIM? | (3) |
| 9 | List out usage models for Synchronizations? | (2) |
| 10 | Describe about IPV6 | (3) |

**Section - B (50 Marks)**

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| 11 | (a) | Describe improvement the capacity and coverage techniques in cellular  system. . | (6) |
| (b) | Explain Frequency Reuse Techniques | (4) |
| 12 | (a) | What are various limitations of mobile devices | (5) |
| (b) | Write salient features of GSM | (5) |
| 13 | (a) | Describe IP packet delivery | (6) |
| (b) | Write the advantages of mobile TCP | (4) |
| 14 | (a) | Explain Fast Retransmit and Fast Recovery mode with respect to duplicate acknowledgements in mobile IP. | (5) |
| (b) | Write the improvements to be done to the classical TCP to be applied to mobile networks | (5) |
| 15 | (a) | Describe data hoarding technique on mobile computing system | (5) |
| (b) | Write about Pull based data delivery mechanism. What are the advantages and disadvantages of pull based data dissemination | (5) |
| 16 | (a) | Write the difference between TDMA,FDMA,SDMA | (4) |
| (b) | Explain the different handover techniques in satellite systems using MEOs (Medium Earth Orbits) | (6) |
| 17 | (a) | Discuss the salient features of Windows CE and android based devices | (6) |
| (b) | What are two methods for Web cache consistency maintenance? Explain each method? | (4) |

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