Registration No: | | | | | | | | | | |

Total Number of Pages: 01 **M.TECH**

P2CTCC11

2nd Semester Regular Examination 2016-17
MOBILE COMPUTING

BRANCH: COMPUTER ENGG, COMPUTER SCIENCE, COMPUTER SCIENCE AND ENGG, COMPUTER SCIENCE AND TECH., Information Tech Eng, INFORMATION TECH.

Time: 3 Hours
Max Marks: 100
Q.CODE: Z972

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

Q1 Answer the following questions: ***Short answer type*** **(2 x 10)**

- **a)** What is scatternet in Bluetooth?
- **b)** What is fixed channel allocation?
- **c)** How does a mobile environment differ from a fixed network, when accessing databases?
- **d)** What is the difference between Proactive and Reactive routing?
- **e)** What is the difference between Home agent and foreign agent?
- **f)** What is Care-of address?
- **g)** What are the challenges in implementing mobile agent system?
- **h)** What are the criteria for optimizing access to a data broadcast?
- **i)** What are the advantages of mobile agents over conventional agents?
- **j)** What is the effect of ordering multiple data items in a broadcast disk on latency?

Q2 **a)** Describe functional architecture of a GSM system with diagram. **(10)**
b) Describe Bluetooth protocol stack with diagram. **(10)**

Q3 **a)** Explain agent discovery process in mobile-IP. **(10)**
b) How tunneling and Encapsulation happens in mobile-IP, Describe. **(10)**

Q4 **a)** Describe Dynamic source routing. **(10)**
b) Why the routing in multihop adhoc networks is complicated? What are the special challenges? **(10)**

Q5 **a)** Describe Snooping TCP. **(10)**
b) Describe Wireless application protocol architecture with diagram. **(10)**

Q6 **a)** Explain periodic broad cast. **(10)**
b) Explain the naïve approach of data broadcasting and computation of expected delay with examples? **(10)**

Q7 **a)** Explain the role of latency and tuning time when designing an indexing scheme. **(10)**
b) What is (1,m) indexing.? **(10)**