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Paper Id:	113222	Roll No.											

B TECH (SEM-VIII) THEORY EXAMINATION 2018-19 MOBILE COMPUTING

Time: 3 Hours Total Marks: 100

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief.

 $2 \times 10 = 20$

- a. What is Mobile Computing?
- b. What are the basic differences between wirelesses WAN and wireless LAN.
- c. Describe Temporary Ordered Routing Algorithm (TORA).
- d. In context to cellular network, explain near and Far Problem.
- e. What do you mean by cell in cellular concept?
- f. Explain Data Management issues.
- g. What is Bluetooth?
- h. Define Frequency Reuse.
- i. What are the different GSM Services?
- j. Explain MANET.

SECTION B

2. Attempt any three of the following:

10x3 = 3

- a. What are the various characteristics of mobile computing? Discuss challenges being faced to support mobile computing.
- b. "CSMA/CD is not a suitable protocol for wireless LAN". Give reasons in favor of or against the statement.
- c. What is General Packet Radio Service (GPRS)? Describe its architecture in detail.
- d. With neat sketch, explain architecture of 802.11 LAN and explain its MAC Logic.
- e. What are the characteristics of MANET? Explain the process of Path Discovery and Path Maintenance in DSR Routing Protocols.

SECTION (

3. Attempt any *one* part of the following:

10x1=10

- a. Why does traditional TCP not perform well in wireless network? Discuss different approaches for TCP improvement.
- **b.** Describe multi-cluster Architecture. Discuss any one algorithm required to partition the network in to several clusters.

4. Attempt any *one* part of the following:

10x1=10

- a. Discuss the architecture of GSM. Also discuss the security issues to implement GSM.
- b. Describe the Fault Tolerance issues involved in Mobile Computing? What is the Monitoring Process?



5. Attempt any *one* part of the following:

10x1=10

- a. List of entities of mobile IP & describe the data transfer from mobile node to a fixed node and vice-versa.
- b. What kinds of problem arise, if TCP is implemented over wireless network? Explain.

6. Attempt any *one* part of the following:

10x1=10

- a. Discuss the schemes of mobile transaction management. List out various issues concerned to transaction management.
- b. What do you mean by CODA file system and also explain the clients in CODA? How Disconnected Operations are performed in CODA?

7. Attempt any *one* part of the following:

10x1=10

- a. Discuss the WAP Architecture in detail. Write down the applications& principles of WAP.
- b. Name the main differences between Ad-hoc network & other network. What advantages do ad-hoc networks offer? Explain in detail by giving suitable example.

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