

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 110857

Roll No.

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B. TECH.

Theory Examination (Semester-VIII) 2015-16

MOBILE COMPUTING

Time : 3 Hours

Max. Marks : 100

Note: Attempt questions from all Sections as per directions.

Section - A

Attempt all parts of this section. Answer in brief. (2×10=20)

1. (a) What is multicluster architecture?
- (b) How many types of links are there between master and slave supported by Bluetooth?
- (c) Define Fisheye State Routing.
- (d) What are the additional functions in wireless ATM with respect to fixed ATM?
- (e) What is the general goal of a file system?

(1)

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- (i) What are hidden node and exposed node problems in wireless LAN?

Section-B

2. Attempt any five questions from this section.

(10×5 = 50)

- Discuss the architecture of GSM. Also explain the security issues to implement the GSM.
- Explain the mechanisms to address the quality of services and energy efficient issues in MANETs.
- Describe the TORA algorithm and explain the route creation and route maintenance in detail with suitable example.

(2)

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- g. Compare SDMA, TDMA, FDMA and CDMA in terms of transmission techniques, signal separation, advantages, disadvantages and applications?

- h. What kind of problems may arise, if TCP is implemented over wireless networks? Explain.

Section-C

Attempt any two questions from this section.

(15×2 = 30)

- Explain different issues that need to be addressed while designing routing protocols for adhoc wireless networks. Explain the key issues involved in Qos routing mobile Adhoc network.
- Six stations A through F communicate using MACA protocol. Is it possible that two transmissions take place simultaneously? Explain your answer.

(3)

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5.

What are the different distribution services provided by the base station to deal with station mobility in 802.11 standard conformant wireless LAN?

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