Code No: 117FN

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, November/December - 2017
MOBILE COMPUTING
(Computer Science and Engineering)

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

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A.
Part B consists of 5 Units. Answer any one full question from each unit.
Each question carries 10 marks and may have a, b, c as sub questions.

PART – A

(25 Marks)

1.a)	Define mobile computing.	[2]
b)	Discuss the limitations of handheld devices.	[3]
c)	What is meant by tunneling?	[2]
d)	Write short notes on TCP/IP.	[3]
e)	What are the advantages of I-TCP?	[2]
f)	What are the quality issues related to mobile computing?	[3]
g)	What is bandwidth?	[2]
h)	Explain temporal addressing.	[3]
i)	What are the disadvantages of MANETs?	[2]
j)	What are the features of windows CE operating system?	[3]

PART-B

(50 Marks)

2.a)	Explain briefly about the architecture reference model of mobile computing.	
b)	Explain different mobile applications.	[5+5]
	OR	
3.a)	Write the difference between circuit switching and packet switching.	
b)	Explain about the time division multiplexing.	[5+5]
4.	Explain in detail about IEEE 802.11.	[10]
	OR	
5.a)	Distinguish between unicast, multicast and broadcast address.	
b)	Write short notes on DHCP.	[5+5]
6.a)	Explain in detail Snooping TCP.	
b)	Compare different TCP enhancements.	[5+5]
	OR	
7.a)	What are the hoarding technique? Explain in detail.	
b)	Explain the process of data recovery.	[5+5]

8.a) Explain the classification of data delivery mechanism.
  b) Distinguish between push and pull-based mechanism of data dissemination.   [5+5]

OR

9.a) Write a short notes on selective tuning and indexing techniques.
  b) Compare the features of hotsync, activesync and intellisync.   [5+5]

10.a) Explain about mobile ad hoc networks(MANETs).
  b) Distinguish between cellular networks and ad hoc wireless networks.   [5+5]

OR

11.a) Explain J2ME.
  b) Write about DSR.   [5+5]

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