Code No: 117FN

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, April/May - 2018
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)	What is mean by modulation?	[2]
b)	Compare DECT and GPRS.	[3]
c)	Define polling technique.	[2]
d)	Write short notes on location management.	[3]
e)	Write short notes mobile TCP.	[2]
f)	Discuss the problem associated with the cache.	[3]
g)	What is communications asymmetry?	[2]
h)	Explain broadcast addressing.	[3]
i)	Define symbian operating system.	[2]
j)	What are the applications of MANET?	[3]

PART-B

(50 Marks)

2.a)	Write a short note on radio interfaces.	
b)	Explain in brief about mobile and handheld devices.	[5+5]

OR

3.	Explain in detail about guided transmission media and unguided transmission media.	[10]

4.a)	Briefly explain Medium Access Control.	
b)	Explain about SDMA.	[5+5]

OR

5.	Explain the methods of tunneling and encapsulation in mobile IP.	[10]

6.	Describe about indirect TCP and Snooping TCP of Mobile Transport layer.	[10]

OR

7.a)	Explain about caching invalidation mechanisms.	
b)	What is query processing? Explain in detail.	[5+5]

8.a) What is synchronizer? Explain with an example.

b) What are different types of broadcast disk models? [5+5]

OR

9. Explain in detail about the push-based data delivery mechanisms. [10]

10.a) Explain about mobile agent.

b) Discuss the security issues in MANET. [5+5]

OR

11.a) Explain linux for mobile devices.

b) What is palm OS? Explain its memory management. [5+5]

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