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BTECH
(SEM VII) THEORY EXAMINATION 2023-24
MOBILE COMPUTING

TIME: 3 HRS**M.MARKS: 100**

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

SECTION A**1. Attempt all questions in brief.**

Q no.	Question	Marks	CO
a.	Define Mobile computing.	2	1
b.	What are the security services offered by GSM?	2	1
c.	What is infrared?	2	2
d.	Define Near and Far problem.	2	2
e.	What cache consistency.	2	3
f.	Explain emulation.	2	3
g.	What is D-AMPS.	2	4
h.	What do mean by masquerade?	2	4
i.	Explain global state routing.	2	5
j.	Write some issues of QoS routing.	2	5

SECTION B**2. Attempt any three of the following:**

a.	Describe the various components of cellular System.	10	1
b.	Explain MACA. How are hidden nodes and exposed node problems addressed in MACA.	10	2
c.	Explain CODA file System. What are clients of CODA.	10	3
d.	Describe fault tolerance in mobile computing environment in detail.	10	4
e.	Explain Fisheye state routing in detail.	10	5

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

a.	Explain GSM communication along with its history.	10	1
b.	Discuss about applications, pros, and cons of GPRS.	10	1

4. Attempt any one part of the following:

a.	Explain all IEEE 802.11 standards.	10	2
b.	Explain Mobile IP in detail.	10	2

5. Attempt any one part of the following:

a.	Explain Clustering Algorithm.	10	3
b.	How does mobility affect data replication on mobile platforms? Explain	10	3

6. Attempt any one part of the following:

a.	What do you mean by mobile agent? Explain in detail.	10	4
b.	Why security concerns in traditional systems are simple than those in Mobile systems?	10	4

7. Attempt any one part of the following:

a.	Describe various classifications of wireless ad hoc networks.	10	5
b.	Why do we need new routing protocols. Write down types of routing protocols.	10	5