III B. Tech II Semester Supplementary Examinations, December -2023
MOBILE COMPUTING
(Com. To CSE & IT)

Time: 3 hours   Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**
All Questions Carry Equal Marks
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UNIT-I

1.	a)	What are the limitations of Mobile Computing?	[7M]
	b)	Explain in detail the various multiple access techniques with neat diagram.	[7M]

(OR)

2.	a)	Explain the role of Wireless Transmission in Mobile computing.	[7M]
	b)	Explain how SDMA is used to allocate separated space to users in wireless networks.	[7M]

UNIT-II

3.	a)	Describe about the system architecture of GSM.	[7M]
	b)	What is TETRA? Explain	[7M]

(OR)

4.	a)	Explain the services provided by GSM.	[7M]
	b)	Explain in brief about FDMA.	[7M]

UNIT-III

5.	a)	With a neat diagram explain the architecture of wireless IEEE LAN 802.11.	[7M]
	b)	Difference between Radio wave and Infrared waves.	[7M]

(OR)

6.	a)	How MANETs are different from cellular mobile networks? Explain.	[7M]
	b)	Explain about the MAC layer of Bluetooth.	[7M]

UNIT-IV

7.	a)	Illustrate the effect of TCP congestion control policy on mobile links.	[7M]
	b)	Explain the transport layer protocols for mobile networks.	[7M]

(OR)

8.	a)	Explain the header format of Mobile TCP.	[7M]
	b)	List out the steps involved in DHCP for assigning an IP address to a newly connected host machine.	[7M]

UNIT-V

9.	a)	With a neat diagram explain the architecture of wireless application protocol.	[7M]
	b)	What are the implications of traditional TCP on mobility? Discuss any one strategy that attempts to increase TCP performance in wireless and mobile environment.	[7M]

(OR)

10.	a)	Explain about the Wireless Session protocol of the session layer.	[7M]
	b)	Explain the session establishment procedure in WSP.	[7M]

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