

Code No: R20A0524

**MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**

(Autonomous Institution – UGC, Govt. of India)

**III B.Tech II Semester Regular Examinations, June 2024****Mobile Computing****(CSE-AIML)**

<b>Roll No</b>									
----------------	--	--	--	--	--	--	--	--	--

**Time: 3 hours****Max. Marks: 70**

**Note:** This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing **ONE** Question from each SECTION and each Question carries 14 marks.

\*\*\*

			<b>BCLL</b>	<b>CO(s)</b>	<b>Marks</b>
<b><u>SECTION-I</u></b>					
1	<i>A</i>	Explain GSM System Architecture?	L2	CO-I	[7M]
	<i>B</i>	Write down the Limitations of Mobile and Handheld Devices?	L3	CO-I	[7M]
OR					
2	<i>A</i>	Explain about GPRS?	L2	CO-I	[7M]
	<i>B</i>	What is mobile computing? Explain its Novel Applications?	L2	CO-I	[7M]
<b><u>SECTION-II</u></b>					
3	<i>A</i>	Describe Mobile IP Network Layers?	L3	CO-II	[7M]
	<i>B</i>	Write the differences between SDMA, FDMA, TDMA?	L3	CO-II	[7M]
OR					
4	<i>A</i>	Write about DHCP?	L3	CO-II	[7M]
	<i>B</i>	Explain about Hidden and Exposed terminals problems in MAC?	L2	CO-II	[7M]
<b><u>SECTION-III</u></b>					
5	<i>A</i>	Write about Indirect TCP, Snooping TCP, Mobile TCP?	L3	CO-III	[7M]
	<i>B</i>	Explain Database Hoarding & Caching Techniques?	L2	CO-III	[7M]
OR					
6	<i>A</i>	Explain Conventional TCP/IP Protocols?	L2	CO-III	[7M]
	<i>B</i>	Write about Client-Server Computing?	L3	CO-III	[7M]
<b><u>SECTION-IV</u></b>					
7	<i>A</i>	Explain the classification of data delivery mechanisms?	L3	CO-IV	[7M]
	<i>B</i>	Discuss the concept of data dissemination in wireless sensor networks?	L2	CO-IV	[7M]
OR					
8	<i>A</i>	Compare and contrast the different protocols used for data synchronization?	L3	CO-IV	[7M]
	<i>B</i>	Name two techniques for handling data conflicts during synchronization and briefly describe how they work?	L2	CO-IV	[7M]
<b><u>SECTION-V</u></b>					
9	<i>A</i>	Write the Applications & Challenges of a MANET?	L3	CO-V	[7M]
	<i>B</i>	Discuss the Dynamic Source Routing (DSR) protocol, including its operations?	L2	CO-V	[7M]
OR					
10	<i>A</i>	Define Mobile Ad hoc Networks (MANETs) and discuss their characteristics. What distinguishes MANETs from traditional fixed networks?	L2	CO-V	[7M]
	<i>B</i>	Define mobile agents and discuss their role in Mobile Ad hoc Networks. How can mobile agents be utilized for efficient data retrieval and processing in dynamic environments?	L2	CO-V	[7M]

\*\*\*