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Reg No.:_____   Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Sixth Semester B.Tech Degree (S, FE) Examination May 2023 (2015 Scheme)

Course Code: CS364

Course Name: MOBILE COMPUTING

Max. Marks: 100   Duration: 3 Hours

PART A
Answer all questions, each carries 3 marks.   Marks

1	What are the functions of Middleware and Gateways in Mobile Computing?	(3)
2	Differentiate between FDMA and TDMA.	(3)
3	What is a handoff? What are the reasons for a handoff to be conducted?	(3)
4	Explain the different applications of Mobile Computing.	(3)

PART B
Answer any two full questions, each carries 9 marks.

5		Explain the three-tier architecture of Mobile Computing.	(9)
6	a)	Explain the functional architecture of GSM with appropriate diagram.	(5)
	b)	Explain the Cellular concept in Mobile Computing with a neat sketch.	(4)
7	a)	With a neat diagram, explain Frequency hopping spread spectrum.	(5)
	b)	List the important design considerations of Mobile Computing.	(4)

PART C
Answer all questions, each carries 3 marks.

8	What are the roles of DHCP in mobile networks?	(3)
9	List the major functions of MAC Layer.	(3)
10	Explain snooping TCP.	(3)
11	Explain the procedure for Service Discovery using Mobile Agents in MANET.	(3)

PART D
Answer any two full questions, each carries 9 marks.

12		Explain IEEE 802.11 wireless LAN protocol architecture.	(9)
13	a)	State the challenges and requirements of a mobile transport layer?	(5)
	b)	List the merits and demerits of indirect TCP technique.	(4)
14		Explain about Mobile TCP with neat diagrams.	(9)

PART E

Answer any four full questions, each carries 10 marks.

15	What is WAP? Explain its architecture in detail.	(10)

16	Explain the following:	(10)
	(i) Bluetooth (ii) PalmOS.	
17	Draw and explain architecture of 5G network.	(10)
18	Describe Networks LTE Architecture & Interface in detail.	(10)
19	Explain the security issues in mobile computing.	(10)
20	Explain snooping TCP. What are its advantages and disadvantages?	(10)

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