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Reg No.:_____ Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
SEVENTH SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018
Course Code: IT403
Course Name: MOBILE COMPUTING

Max. Marks: 100 Duration: 3 Hours

PART A
Answer any two full questions, each carries 15 marks.

Marks

1 a) Compare the architecture of IEEE 802.11 infrastructure based and ad-hoc networks (10)

   b) Differentiate between MOC and MTC routing scenarios? (5)

2 a) Explain WCDMA. (7)

   b) Describe the architecture of GPRS with a neat diagram. (8)

3 a) Describe cellular wireless networks. (6)

   b) What is GPS? List the applications of GPS. (4)

   c) What are the teleservices provided by GSM? (5)

PART B
Answer any two full questions, each carries 15 marks.

4 a) Describe how a packet from correspondent node transmitted to the mobile node, including the message exchanges made by in the process of packet transmission in the context of tunneling (10)

   b) How can the overhead for TCP be reduced using transaction-oriented TCP? (5)

5 a) Point out the essential requirements of Mobile IP (5)

   b) Explain the transmission mechanism of Indirect TCP and Snooping TCP. (10)

6 a) Define Care-of address (COA). What are the two possibilities for the location of COA? (4)

   b) With a neat diagram explain IP in IP encapsulation (3)

   c) How does the foreign agent increase efficiency and still maintains its transparency during data transfer in snooping TCP? (4)

   d) Explain the advantages of mobile TCP. (4)

PART C
Answer any two full questions, each carries 20 marks.

7 a) How does the distance vector routing is enhanced as DSDV to work for ad hoc networks? Describe routing table structure also. (10)

	b)	What are the different mobile payment methods?	(5)
	c)	What are the different android application components?	(5)
8	a)	Discuss about problems with routing in Mobile Ad-hoc Networks.	(10)
	b)	Draw the components and interface of WAP architecture and explain each layer.	(10)
9	a)	Describe the working of hierarchical ad-hoc routing protocols. Give two examples. Write any one advantage and disadvantage of this hierarchical routing.	(10)
	b)	What are the different M-Commerce services?	(5)
	c)	What is wireless session protocol/browsing (WSP/B)? What are the special features offered by WSP/B for web browsing	(5)

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