QUESTION PAPER CODE- 56010

University Institute of Engineering & Technology

(Recognised Under Section 2(f) and 12B of UGC)

Kurukshetra University, Kurukshetra

Roll No. -

THEORY EXAMINATION – MAY 2019		TIME – 3 Hrs.
B.TECH – CSE	SEMESTER – VI	M.M. - 75

PAPER- CSE-306	SUBJECT- Mobile Computing

Note: All questions in Part-A and Part-B are compulsory. Attempt any four questions from Part-C selecting at least one from each unit.

PART-A (15 Marks)

Q. No. – 1 Answer the following short questions. **15x1=15**

(i)	What is Frequency Re-Usability?
(ii)	The Shape of a Cellular region is?
(iii)	GSR routing protocol is a type of which routing protocols : a. Table-driven b. Source-initated c. Hybrid d. Any of these
(iv)	DSR routing protocol is a type of _____ Routing Protocol.
(v)	DSR routing protocol is a type of which routing protocols : a. Table-driven b. Source-instated c. Hybrid d. Any of these
(vi)	Differentiate Parallel and Serial Transmission.
(vii)	What is Hybrid Cloud?
(viii)	What do you understand by WCDMA?
(ix)	What are the Base Station and Master Station?
(x)	Technical standard name of Blue-Tooth and Wi-Fi?
(xi)	What do you understand by TORA ?
(xii)	Which type of directional antennas are used in Centre excited hexagonal cells
(xiii)	What is "Dynamic Topology" in Ad-Hoc networks?
(xiv)	Differentiate "Wireless" and Mobile" communication ?
(xv)	List WAP applications

PART-B (20 Marks)

	UNIT-I	
2	Differentiate between 3G and 4G.	5
	UNIT-II	
3	With suitable representation explain Classical TCP.	5
	UNIT-III	
4	Explain CODA file system in details.	5
	UNIT-IV	
5	Write short note on QoS in Ad-hoc Networks.	5

PART-C (40 Marks)

	UNIT-I	
6	With suitable representation Explain Mobile Computing architecture in detail. Enlist the major characteristics of Traditional and Wireless Telephony, What are the major important issues relates with Mobile Computing?	10
7	What is GSM? Explain Cellular Architecture in detail. Discuss Mobility issues and Location Management policies in Cellular system	10
	UNIT-II	
8	Compare and Contrast various features of Bluetooth and Wi-Fi technologies, along with their merits and Demerits over each other.	10
9	What is WAP? Discuss WAP architecture along with the various improvements associated With WAP.	10
	UNIT-III	
10	With suitable representation explain various Data Management and Security issues associate with Mobile Computing	10
11	What is Cloud Computing? Explain its types. Discuss Clustering and Map reduce mechanism used in Cloud.	10
	UNIT-IV	
12	Explain DSDV and TORA routing protocols.	10
13	How routing in traditional networks is differ from Ad-hoc networks? With suitable Example explain Proactive and Reactive Routing Protocols.	10