Reg. No.:					

# **Question Paper Code: 36202**

## B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

#### Sixth Semester

# Computer Science and Engineering

## 01UCS602 - FUNDAMENTALS OF MOBILE COMPUTING

(Regulation 2013)

D	uration: 1:15hrs		Ma	aximum: 30 Marks			
		PART A - (6 x 1 =	= 6 Marks)				
(Answer any six of the following questions)							
1.	The shape for the cellular region for maximum radio coverage is						
	(a) Circular	(b) Square	(c) Oval	(d) Hexagon			
2.	Commonly used mode	for 3G networks is					
	(a) TDMA	(b) FDMA	(c) TDD	(d) FDD			
3.	In TD-SDMA, there i time slots.	s a frame of r	milliseconds and the	frame is divided i	into		
	(a) 5, 7	(b) 7, 5	(c) 2, 5	(d) 5, 2			
4.	mechanism ha	s a higher latency during	g handoff.				
	(a) Transaction-oriented TCP		(b) Mobile TCP				
	(c) Indirect TCP		(d) Snooping TCP				
5.	A Global Service for N	Mobile (GSM) uses two l	oands for duplex				

(a) Data (b) Communications (c) Signals (d) Frames

6.	UMTS uses a constant chipping rate of 3.84 Mchps/s. A channel uses Factor 16. What is the transfer rate?	the spreading						
	(a) 120kbps (b) 480kbps (c) 460kbps (d) 9	960kbps						
7.	Proactive is also called as protocols.							
	(a) Table Driven (b) On demand routing (c) Vector routing (	d) topology						
8.	Which network does not rely on a pre existing infrastructure?							
	(a) Wireless Ad Hoc Network (b) Bluetooth							
	(c) HIPERLAN (d) Wireless Sensor Network	vork						
9.	is not a mobile operating system?							
	(a) Windows (b) Linux							
	(c) Symbian (d) Android							
10. Which of the following statement are true about mobile operating system?								
	1. Symbian is a mobile operating system.							
	2. Mobile operating system cannot be based on Linux.							
	3. Blackberry is a phone and not a Mobile Operating System.							
	4. 'Windows Mobile' product is similar to 'Pocket PC'							
	(a) 1, 2, 3 only (b) 1, 3, 4 only							
	(c) 1, 2, 4 only (d) 1, 4 only							
	PART – B (3 x 8= 24 Marks)							
	(Answer any three of the following questions)							
11.	Explain the structure of a mobile computing application in detail.	(8)						
12.	Describe briefly about the route optimization in mobile IP.							
13.	Explain GSM System architecture and GSM protocol architecture in detail. (8)							
14.	Explain how dynamic source routing protocol handles routing. Give ex	ample. (8)						
15.	Describe M-commerce in detail and write it's pros and cons.	(8)						