	Reg. No. :									
<b>Question Paper Code: 46022</b>										
B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017										
		Sixth Se	emester							
	C	Computer Science	and Eng	gineering	g					
	14UCS602 - FU	JNDAMENTAL	S OF MO	OBILE (	COMP	UTIN	١G			
		(Regulation	on 2014)							
Du	ration: Three hours					Max	imum:	100 N	<b>A</b> arks	
		Answer ALI	_ Questic	ons						
PART A - $(10 \times 1 = 10 \text{ Marks})$										
1.	A television broadcast is a	n example of	tra	nsmissi	on.					
	(a) simplex	(b) half-duplex		(c) full-	duplex	, <b>.</b>	(d)	) auton	natic	
2.	The type of access used in	GSM technolog	y is							
	(a) FDMA/TDMA	(b) CDMA		(c) OFI	DMA		(d)	SDM	A	
3.	The is use	ed by email progr	rams to r	etrieve 6	emails	from	an em	ail ser	ver.	
	(a) HTTP	(b) SNMP		(c) AR	.P		(d)	POP		
4.	The process of channel co direction and reverse for r		-	_	nd mod	lulatio	on for	Trans		
	(a) BTS	(b) BSC		(c) MS	C		(d)	MS		
5.	Global Service for Mobile	(GSM) uses two	bands fo	or duple	X					
	(a) Data (b) c	ommunications	(	c) Signa	als		(d)	) Fram	es	
6.	The provides pasuch as frequent transmiss		_	plicatio	ons that	exhi	bit tra	ffic pa	tterns	

(c) UMTS

(d) GGSN

(a) GSM (b) GPRS

7.	Proactive is also called as protocols.		
	(a) Table Driven (b) On demand routing	(c) Vector routing	(d) topology
8.	Message is sent to all the nodes in the network	by	
9.	(a) Unicasting (b) Multicasting (commerce stands for	) Broadcasting	(d) demand routing
	(a) Multimode (b) Multi casting (	c) Multi media	(d) Mobile
10.	is a collection of telephony spec mechanisms, merging data networks and voice		and feature control
	(a) Wireless application protocol	(b) File transfer proto	col
	(c) Wireless telephony application (	(d) Simple object acco	ess application
	PART - B (5 x $2 =$	10 Marks)	
11.	Define MAC Protocol		
12.	What are the requirements of Mobile IP?.		
13.	Define Handoff. What are its types?		
14.	Mention the steps involved in routing process of	of MANET.	
15.	List the payment systems in M-Commerce.		
	PART - C (5 x $16 = 80$	0 Marks)	
16.	(a) i) Explain in detail about Mobile Computir and limitations in the real world scenarion	-	rious applications (10)
	ii) Discuss about Reservation Based schem	es.	(6)
	Or		
	(b) (i) Demonstrate the working of CSMA.		(8)
	(ii) Describe in detail about TDMA, FD among them.	MA, CDMA and ta	` ´
17.	(a) (i) Explain the sliding window protocol in	n TCP/IP.	(8)
	(ii) Examine the reason why congestion of TCP detect and handle congestion.	ccurs in a network? E	xplain how does (8)

	(b)	(i) Explain the process of route optimization in Mobile IP.	(8)
		(ii) Explain Indirect TCP(I-TCP) with the help of a suitable schematic diagram.	(8)
18.	(a)	(i) Explain in detail about GSM architecture.	(12)
		(ii) Explain how does a call gets terminated in mobile phones.	(4)
		Or	
	(b)	(i) Describe in detail about GPRS procedures in detail.	(12)
		(ii) Draw the architecture of UMTS.	(4)
19.	(a)	(i) Discuss DSDV routing in detail with a neat diagram.	(8)
		(ii) Discuss the applications of MANET.	(8
		Or	
	(b)	<ul><li>(i) Demonstrate how multicast routing is carried out in ad-hoc networks.</li><li>(ii) Explain any two terms and conclude how these two parameters impact the</li></ul>	(8)
		design of MANET.	(8)
20.	(a)	(i) Explain Android platform with its features.	(8)
		(ii) Describe the mobile payment schemes and solutions. Or	(8
	(b)	(i) Explain in detail iOS with SDK.	(8)
		(ii) Explain the advantages and disadvantages of M-commerce.	(8)