## Third Year B.C.A.(Semester - II)Examination Paper - 15BCA309 Mobile Computing

Time: T	hree hours]	[Full Marks - 60			
N.B. :	ii) Due credit w	carry equal marks Il be given to neatness & adequate			
	dimensions.	1 1 4 1			
		Assume suitable data wherever necessary.  Diagrams & Equations should be given wherever necessary.			
	•	nck ink/refill only for writing the			
Q. 1 Cl	noose correct option	from give alternatives. 5			
		cemodel of mobile computing			
	consists of				
	i) 4 layers	ii) 5 layers			
	iii) 9 layers	iv) 6 layers			
b)	GPRS is a				
	i) 3G	ii) 2.5G			
	iii) 4G	iv) 5G			
c)					
	km above the Ear				
	i) GEO	ii) MEO			
•	iii) LEO	iv) HEO			
d)	Bluetooth is also				
	i) piconet	ii) smallnet			
->	iii) broadnet	iv) infranet			
e)	M-TCP stands fo				
	i) Mega TCP				
	iii) Mini TCP	iv) Multi TCP			

Q. 2		Explain the cellular system in brief.  Explain the following terms.						
	,	i) Signal ii) Antenna						
OR								
Q.3	a)	Explain signal propogation in wireless mobile networks.	5					
	b)	What do you mean by modulation? Explain any one type in short.						
Q. 4	a) b)	What is FDMA and S DMA? Explain in short. Explain the GSM authentication and security.	6 5					
		OR						
Q.5	a)	Give the comparison of S DMA/T DMA/FDMA/CDMA.	4					
	b)	Explain GPRS network in short.	4					
	c)	Why specialized MAC protocol is required.	3					
Q.6	a) b)	Explain digital video broadcasting in brief. Discuss the broadcast system in brief.	6 5					
OR								
Q. 7	a) b)	List the various applications of satellite Explain the types of satellites based on orbits.	5 6					
Q.8	a) b)	Discuss infrared versus radio transmission in short. Discuss the advantages and disadvantages of Mobile adhoc network						
		aunoc network.	6					

OR

. /	Explain Bluetooth technology. What do you mean by DHCP.		5 6		
- /	Explain in detail classical TCP improvements. Explain the architecture of WAP.		5 6		
OR					
Q.11 a)	Explain the terms. i) SyncML	ii) World wide web	6		
b)	<u> </u>	ii) World Wide web			

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