No	of.	Prin	ted Pages-3 Roll No	Roll No	
			B. TECH. Ist - Year		
	F	IRS	T SEMESTER EXAMINATION, 2007-2008		
•			COMPUTER SYSTEM PROGRAMMING THODOLOGIES AND NETWORKING	3	
Tin	ne : 3	3 <i>Ho</i>	urs Maximum Marks :	100	
No	te:	Atte	empt any FIVE questions.		
1.	(11)		aw a block diagram of digital computer and lain functioning of its various blocks.	(6)	
	(b)		olain hierarchy of memories used in computer tem.	(7)	
	(c)	Dif	ferentiate between the following:		
		(1)	Static RAM & dynamic RAM		
		(ii)	Computer hardware & software	(7)	
2.	(11)	Dif	ferentiate between the following:		
		(1)	multiprogramming & multitasking		
		(ii)	GUI & CUI	(6)	
	(b)	(1)	DBMS:		
			field, record, file, database, primary key		
		(it)	Write down five advantages of using MS-Excel for accounting purpose.	(7)	
	(c)	(1)	Define Operating System. Explain the different functions performed by OS.		
		(ii)	Define SQL. What are the advantages of using it?	(7)	

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3.	(a)	Perform the following conversions:					
		(/) (5214)) <sub>10</sub> = ( ) <sub>16</sub>					
		( <i>ii</i> ) $(5A8.F)_{16} = ( )_8$					
		$(iii)$ $(1310)_{10} = ( )_{BCD}$					
		$(iv)$ $(235.46)_8 = ($	(6)				
	(b)	Explain UTP and STP.	(7)				
	(c)	How is fourth generation language different from third generation language ?	(7)	-			
4.	(a)	Differentiate between LAN, WAN & MAN.	(7)				
	(b)	Write short notes on :					
		(i) MPEG					
		(ii) MP3	2.0				
		(iii) MHEG	(6)				
	(c)	Explain the salient feature of NICNET. List other specialized and dedicated networks.					
5.	(11)	What is database management system? Explain with example.					
	(1)	Explain MS-office, its components and application.	(7)				
	(c)	What do you mean by FTP & Telnet ?	(6)				
6.	(a)	Differentiate between a half duplex and a full duplex transmission with example.	(7)				
	(b)	Explain Client Server Architecture.	(7)				
	(c)	Differentiate between Assembly language and High Level Language.	(6)				

7. (a) Draw a flow chart of an algorithm to find the largest number out of N positive integers. (7)

(b) What is an electronic payment? Explain with suitable example, how a customer pays electronically to the merchant for the product he/she buys through internet. (7)

(c) Differentiate between complier and interpreter. (6)

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