

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code: GE4B-17T Computer Basics and Multimedia Software

UPID: 413017

Time Allotted: 3 Hours

Full Marks:70

The Figures in the margin indicate full marks. Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

		Group-A (very short white a syp-	[1 x 10 = 10]
1. Ans	wer a	any ten of the following:	[1 x 10 - 10]
	(I)	As per Sign Magnitude the value of the decimal of (110011)2 will be	
	(11)	The deleted files or folders are stored in	
	(111)	The manner of starting a computer by pressing the Restart or the Reset button is called	<u>-</u> ·
	(IV)	In BCD code number of bits is used to create a signal.	
	(V)	The idea based on which the operating system executes any program which is larger in size than called	
	(VI)	The manner in which the computer starts after the power switch is turned on is known as	_ ·
		Given an integer array, arr[], the ith element can be accessed by writing	
	(VIII)	In C, size of is an operator. (Yes/No)	
	(IX)	The fopen() function returns when the file is not opened.	
	(X)	What will be the output of the following program? main() { int i:	
		for(i=0;i<4;++i); printf("%d",i); }	
	(XI)	operating systems do not support more than one program at a time.	
	(XII)	How to declare a double-pointer in C?	
	*	Group-B (Short Answer Type Question)	
		Answer any three of the following :	[5 x 3 = 15]
2.	Fine	d the difference of (7324.16) ₈ - (542.27) ₈ .	[5]
3.		d the difference of (5A62) ₁₆ - (2ABC) ₁₆ .	[5]
-		plain 'cat' and 'mv' commands with suitable examples.	[5]
4. 5.	-	plain memory hierarchy with suitable diagram.	(5)
6.	_	fine array. Explain different types of arrays in detail.	(5)
0.	Dei		(5)
		Group-C (Long Answer Type Question)	
		Answer any three of the following:	[15 x 3 = 45]
7.	٠.	Define data.	[2]
		Write the different types of data and elaborate shortly.	[7]
		Write a c program to find out vowels and count the number of vowels in a string.	[6]
8.		Determining the difference of (100110)2 - (111000)2 using 1's complement.	[4]
		Explain multiprogramming and multiprocessing operating systems.	[5]
		Differentiate between break and continue statements with suitable examples.	[6]
9.		What are command line arguments?	[6]
	(b)	Explain the following using general syntax and example: i) while	[9]
		ii) do-while	
		iii) for	

10.	(a)	Consider a direct mapped cache of size 16 KB with block size 256 bytes. The size of the main memory is 128 KB. Find Number of bits in tag and Tag directory size.	[7
	(b)	Explain the difference between Windows and Linux operating systems.	[5
	(c)	What is the use of static variables in C?	[3
11.	(a)	Consider a 8-way set associative mapped cache of size 512 KB with block size 1 KB. There are 7 bits in the tag. Find the size of main memory and tag directory size.	8]
	(b)	Explain different types of language translators.	[5
	(c)	What is application software?	[2

*** END OF PAPER ***