P.T.O.

**BICS-030** 

## DIPLOMA IN COMPUTER SCIENCE AND TECHNOLOGY (DCSVI)/ADVANCED LEVEL CERTIFICATE COURSE IN CSE (ACCSVI)

## **Term-End Examination**

June, 2012

**BICS-030: 'C' PROGRAMMING** 

Time: 2 hours				Ma	Maximum Marks: 70			
Not		ttemp ompul		ve questio	ns in all.	Question	No.1	is
1.	Cho	ose th	e correc	t option :				2
	(a)	Whi	ch pund	ctuation i	s used to	signal t	he	
		begi	nning ai	g and end of code block ?				
		(i)	{ }					
		(ii)	()	•				
		(iii)	Both (i	) and (ii)				
		(iv)	None (	of the abo	ve			
	(b)	Whi	ch of th	ne follow	ing is al	lowed in	C	2
		arithmetic instruction ?						
		(i)	[]	(ii)	{ }			
		(iii)	()	(iv)	<< >>			
	(c)	Arra	y suppo	orts:				2
		(i) Static Memory allocation						
		(ii) Dynamic allocation						
		(iii)	Both					
		(iv)	None (	of above				

1

	(4)		Cital data type takes bytes to					
		stor	e a variable	in 16	- Bit compiler).			
		(i)	TWO	(ii)	ONE			
		(iii)	THREE	(iv)	FOUR			
	(e)	If $a = 10$ , then if $z = + + a$ ; the value of z is						
		(i)	10	(ii)	12			
		(iii)	11	(iv)	None of the above			
	<b>(f)</b>	The range of int is:						
		(i)	0 - 255					
		(ii)	-128 to 3	125				
		(iii)	-32768 t	o 3276	57			
		(iv)	None of a	bove.				
	(g)	'Whi	le' is a :			2		
		(i)	keyword	(ii)	identifier			
		(iii)	variable	(iv).	None of the above			
2.	(a)				to check whether a	7		
		num	ber is arms	trong (	or Not?			
	(b)				calculate the area of	7		
		a tria	ingle whose	e sides	are a,b and c.			
3.	(a)	Explain the three - level schema architecture						
		of DI	BMS.					
	(b)	Wha	t is data?	Ho	w it is differ from	8		
					by giving a suitable			
				e the i	nformation is stored			
		in co	mputer ?					
<b>1</b> .	(a)	What is an array? Write a C program to						
			ranspose o			-		

	(0)	using loops:  1 22 333 4444 55555	7
5.	(a)	What is computer? What are the various characteristics of a computer? Draw a block diagram of computer?	8
	(b)	Write the syntax of 'while' and 'do while' statements. Also differentiate between them by giving an example.	6
6.	(a)	What is operator? Explain various operators in C by giving a suitable example.	7
	(b)	Write a C program to calculate the compound interest.	7
7.	(a)	What is file? Write a C program to create a file and display its contents.	7
	(b)	What are the Key Constraints in DBMS? Explain each constraints by giving a suitable example.	7
8.	Writ	e short notes on $(Any four)$ : 3.5x4=	= 1 <b>4</b>
	(a)	DDL and DML	•
	(b)	CAD	
	(c)	CAM	
	(d)	RDBMS	
	(e)		
	<b>(f)</b>	Hardware	