

BRAINWARE UNIVERSITY

Course - BAMW

Computer Science (BMWG101)

(Semester - 1)

Time allotted: 3 Hours Full Marks: 70

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group -A

(Multiple Choice Type Questions)

 $10 \times 1 = 10$

		10 X 1 = 10				
1.	Choose the correct alternative from the following					
(i)	i) C supports the statement to branch unconditionally from one point to anot					
	in the program					
	a. continue	b. break				
	c. goto	d. switch				
(ii)	The break statement is used to exit from					
	a. an if statement	b. a loop				
	c. a program	d. the main() function.				
(iii)	An array is a collection of					
	a. different data types scattered	b. the same data type scattered				
	through memory	throughout the memory				
	c. The same data type placed next	d. Different data types placed next to				
	to each other in memory	each other in memory				
(iv)	Every C function					
	a. By default return an integer	b. By default return more than one				
	value	integer value				
	c. By default return an floating constant	d. None of these				

(v)	Static memory allocation means allocation during			time.	
	a.	Compile	b.	Run	
	c.	Allocation	d.	De-allocation	
(vi)	C prog	ramming is a			
	a.	Procedural language	b.	Object oriented language	
	c.	Both a and b	d.	None of these	
(vii)	The ou	tput of the following code is			
	int a =	5;			
		if(10)			
		printf("%d",++a);			
		else printf("%d",a++);			
			_	_	
	a.		b.		
	c.		d.	None of these	
(viii)		will be the following output?			
	int i=2	; switch(i)			
		{			
		case 1: printf("Happy");			
		break;			
		<pre>case 2: printf("NEW");</pre>			
		<pre>case 3: printf("YEAR");</pre>			
		}			
	a.	Нарру	b.	NEW	
	c.	NEWYEAR	d.	None of these	
(ix)	Which	of the following is a ternary operator			
	a.	+	b.		
	c.	?:	d.	!	
(x)	What i	is the value of y in the following code?			
	x = 7;	y = 0;			
	if(x)	7			
	y = else	<i>/</i> ;			
	y =	1:			
	-		h	0	
	a.		b.		
	c.	1	d.	O	

Group-B

(Short Answer Type Questions)
(Answer any *three* from the following)

		(Allswer any <i>inree</i> from the following)				
2.	Exp	plain precedence and associativity of unary and binary operator with	$3 \times 5 = 15$			
	_	mple.	[5]			
3.	Wri	[5]				
4.	Wri	[5]				
5.	Write a C program to find the reverse of a given number. Write a C program to swap (exchange) the values between two variables.					
6.	Def	Define the mechanism of 'switch-case-default' statement with example.				
		Group – C				
		(Long Answer Type Questions) (Answer any <i>three</i> from the following)				
			$3 \times 15 = 45$			
7.	(a)	What is user defined function? Explain with a suitable example.	[5]			
	(b)	Discuss about the syntax of 'while loop'.	[3]			
	(c)	Write a C program to print the following pattern:				
		*				
		* *				
		* * *				
		* * * *	[7]			
8.	(a)	What is an array? How can you declare a 2-D array of integer and				
		float type?	[5]			
	(b)	Write a C program to check whether a string is palindrome or not.	[10]			
9.	(a)	Write a C program to find the smallest element from an array of 10				
		elements of integer type.	[5]			
	(b)	Discuss about logical operator and bitwise operator with proper				
		example.	[6]			
	(c)	Distinguish macro and function with example.	[4]			
10.	(a)	Differentiate break and exit statement with suitable example.	[4]			
	(b)	What are the rules to declare variable in C.	[4]			
	(c)	Write a C program to reverse a string.	[7]			

11. Write short notes on any *three* from the following:

 $[3 \times 5]$

- (a) Logical operator
- (b) String
- (c) Variable vs. Array
- (d) While loop vs. do-while loop