

## **BRAINWARE UNIVERSITY**

## Course - BAMW

## **Computer Science (BMWG101)**

(Semester - 1)

1 ime	allotted: 3 Hours			Full Marks: 70				
[The	figure in the margin in	ndicates full marks. Ca their own words as fa	andidates are required to ar as practicable.]	o give their answers in				
		Group	<b>-A</b>					
		(Multiple Choice	Type Question)					
1. Cho	oose the correct alterna	1 x 10 = 10						
i.	Which of the following declaration is not a valid declaration?							
	a) int 3x	b) int x2x	c) int x2	d) int x				
ii.	Which of the following is a bitwise operator?							
	a) &&	b) <	c) %	d) >>				
iii.	What will be the value	ne of a and b?						
	int $a = 1$ , b;							
	b = ++a;							
	printf("%d,%d", a, b);							
	a) 1,2	b) 2,2	c) 2,1	d) 1,2				
iv.	Which of the following	ng operator takes only	integer operands?					
	a) +	b) %	c) /	d) *				
v.	Which of the following statement is not true for an array?							
	a) allocates contiguous memory location							
	b) index position star	ts from 0						
	c) contains heterogen	eous data values						

d) capable of storing multiple values at a time

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vi. The output of the following code is
           int a = -6, b = 2;
           if(a/b)
           printf("Hello");
            else
           printf("Hi");
                                                 c) Error
                                                                        d) None of these
   a) Hello
                          b) Hi
vii. Which one is correct output?
           char arr[] = "Computer";
           printf("%d", strlen(arr));
   a) 7
                          b) 8
                                                 c) 9
                                                                        d) 16
viii. How many keywords are there in C?
   a) 35
                          b) 32
                                                 c) 42
                                                                        d) None of these
ix. A function should return
   a) single value
                          b) multiple value
                                                 c) both a) and b)
                                                                        d) None of these
x. What will be the following output?
           int i=2;
           switch(i)
           {
                   case 1: printf("Hello");
                   case 2: printf("Welcome");
                   case 3: printf("to");
                   default: printf("Brainware University");
           }
                   b) Welcome
                                         c) Brainware University
                                                                        d) None of these
   a) Hello
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## Group - B

(Short Answer Type Question)

Answer any three of the following:

 $3 \times 5 = 15$ 

2. Write a comparative study among while, do-while and for loop.

5

3. Wł	at is tl	ne diffe	rence be	etween 'break' and 'continue' statement. Explain with exan	iple.	5
4. Ex	4. Explain with example that what do you mean by operator precedence and associativity.					
5. Wı	5. Write a C program to swap (exchange) the values between two variables.					
6. De	6. Define the switch case statement with example.					
				Group – C		
				(Long Answer Type Question)		
Answer <b>any three</b> of the following: 3 x 15					3 x 15 =	<del>-</del> 45
7. a) l	Discus	s about	various	data types in C.		
b) ]	Explai	n with e	example	pre-increment and post-increment operator.		
c) '	Write a	ı C prog	gram to	check whether a number is palindrome or not.	5+5	5+5
8. a) l	Discus	s about	the syn	tax of for loop.		
b) '	What c	lo you 1	mean by	'entry controlled loop' and 'exit controlled loop'?		
c) '	Write a	ı C prog	gram to	print the following pattern:		
	1	1	1	1		
	1	1	1	1		
	1	1	1	1		
	1	1	1	1	3+5	5+7
9. a) '	What i	s array?	Write:	some features of array.		
b) Ho	ow to c	leclare	an integ	ger and float array?		
c) W	rite a C	C progra	am to fi	nd the biggest element from an array of 10 elements.	5+4	1+6
10. a)	Discu	ss abou	it the lib	orary functions used to handle string in C.		
b) Write a C program to check whether a string is palindrome or not.					6	5+9
11. Write short notes on: (Any three)					5 2	x 3
a) Sta	ndard	input o	utput lil	prary function		
b) Ma	icro Su	ıbstituti	on			
c) C f	unctio	n				
d) Ar	ray					

e) Bitwise Operator