

BRAINWARE UNIVERSITY

Course - BAMW

Computer Science (Basic C Programming) (BMW103)

(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.]

	C	Group –A	
	(Multiple C	hoice Type Questions)	$10 \times 1 = 10$
1. (i)	Choose the correct alternative from Number of bytes required to store a		
	a. 8 bytes	b. 2 bytes	
	c. 4 bytes	d. 10 bytes	
(ii)	Which one of the following is a	ternary operator?	
	a. &&	b. <=	
	c. !=	d. ?:	
(iii)	Pointer is		
	 a. a variable containing the address of a variable 	b. a value	
	c. a memory location	d. none of these.	
(iv)	Which one of the following declara	tion is invalid?	
	a. int 2A	b. int A2	
	c. int AA2	d. int A2A	
(v)	Do-While loop is called		
	 entry controlled loop 	b. exit controlled loop	
	c. both (a) and (b)	d. none of these	

(vi)	A stri	ng ends with				
	a.	0	b.	last character of the string		
	c.	NULL		none of these		
(vii)						
	a.	run	b.	compile		
	c.	allocation	d.	de-allocation		
(viii) The mode used for creating a text file for read / write is:						
	a.	rb+	b.	w+		
	c.	a+	d.	W		
(ix)	ASCI	I value of 'A' is				
	a.	66	b.	65		
	c.	60	d.	97		
(x)	How 1	many keywords are t	there in C language	?		
	a.	30	b.	32		
	c.	42	d.	40		
			Group – 1	В		
(Short Answer Type Questions)					3 x 5 = 15	
Answer any <i>three</i> from the following 2. Indicate the difference between int main() and void main(). 3. Write a C program to print the following pattern: 1 2 3				[5]		
4. 5. 6.	5. What do you mean by local variable and static variable? [5]					

 $3 \times 15 = 45$

Group - C

(Long Answer Type Questions)

Ans	wer a	ny <i>three</i> from the following				
7.	(a)	What is a function?	[2]			
	(b)	What are the advantages of using functions?	[3]			
	(c)	What are the function prototypes?	[3]			
	(d)	Explain the difference between call by value and call by				
		reference with examples.	[7]			
8.	(a)	What do you mean by different storage classes in 'C'?	[2]			
	(b)	Name different storage classes and explain each with examples.	[8]			
	(c)	Write a program in C to sort n numbers of integers using bubble sort.	[5]			
9.	(a)	What is union?	[2]			
	(b)	How does a union differ from a structure?	[4]			
	(c)	How a union member can be accessed?	[2]			
	(d)	Write a 'C' program that implements a structure 'person' that				
		would contain person name, date_of_joining & salary.	[7]			
10.	(a)	What do you mean by recursion?	[2]			
	(b)	What is indirect recursion?	[2]			
	(c)	Write a program in C to find the factorial of a number using	[6]			
		recursion.				
	(d)	Write a program to find length of a string without using a library function.	[5]			
11.	Writ	Write short notes on any <i>three</i> of the following:				
	(a)	Actual and formal arguments	[3 x 5]			
	(b)	Dynamic memory allocation				
	(c)	Preprocessor directives				
	(d)	Break and exit				
	(e)	Ternary Operator				