d. A set of mathematical operators

Full Marks: 70



BRAINWARE UNIVERSITY

Term End Examination 2018 - 19

Programme – Bachelor of Arts (Honours) in Multimedia & Web Development Course Name - Computer Science (Basic C Programming)/Computer Science Course Code – BMW103/BMWG101

(Semester - 1)

Time allotted: 3 Hours

[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) $10 \times 1 = 10$ 1. Choose the correct alternative from the following: (i) By default a real number is treated as: b. double a. float d. far double c. long double A ternary operator contains _____ (ii) _ operator a. 0 b. 1 c. 2 d. 3 Which header file should be included to use functions like malloc() and calloc()? (iii) a. memory.h b. stdlib.h c. string.h d. dos.h The number of logical operators in C are (iv) b. 2 a. 1 c. 3 d. None of these A program is a: (v) a. A sequence of instructions b. Diagrammatic representations of the using a programming instructions language

b. Integer

d. Enum

Which of the following cannot be checked in a switch-case statement?

c. A list of instructions (actions)

to accomplish a task

a. Character

c. Float

(vi)

(vii) Smallest element of array's index is called:					
	a.	lower bound	b.	upper bound		
	c.	range	d.	Extraction.		
(viii	ii) Which of the following special symbol allowed in a variable name?					
	a.	* (asterisk)	b.	(pipeline)		
	c.	- (hyphen)	d.	_ (underscore)		
(ix)	Which of the declaration is correct?					
	a.	int length	b.	char int		
	c.	int long	d.	float double		
(x)	The va	lue of EOF is				
	a.	-1	b.	0		
	c.	1	d.	10		
		Grou	ıp – B			
(Short Answer Type Questions)						
Ans	wer any <i>th</i>	ree from the following:				
]	•					
]	print the fo	itch statement that will examine ollowing messages: eather; if flag has value 1	the valu	ne of an integer variable flag and		
	It is a stormy weather; if flag has value 2					
	It is sticky	weather; if flag has value 3				
	It is a pleas	sant weather; otherwise			5	
4	Explain the scope of int, long int, char.					
5	Why do we use functions? Give the advance features of functions.					
6	Write a program to test if a character from the keyboard is a lower case letter.					

Group-C

(Long Answer Type Questions)	$3x \ 15 = 45$

wer a	ny three from the following:	
(a)	What are the features of C preprocessor? Write the differences between macros and functions.	6
(b)	Write a function, which takes an array of real numbers and its size as arguments and returns the maximum and the minimum. Using the above function write a program to read a set of real numbers from the keyboard and find the maximum and the minimum number in the array.	9
(a)	Define a pointer. Write a program to assign any number at random to an integer variable k and display the same through pointer.	8
(b)	Explain library string functions. Write a program to copy the contents of the string "HELLO" to another string embedding a blank between each of the characters.	7
(a)	Explain the following types of errors, which are considered while testing programs - Syntax errors, Run-time errors, Logical errors.	6
(b)		4
(c)	Write a program to find the sum & average of a given set of positive integers using the dowhile loop.	5
(a)	Distinguish between call-by-value and call-by-reference. Illustrate.	6
(b)	What is an array & how is an array variable different from an ordinary variable?	4
(c)	Give the difference between break & continue statement.	5
(a)	Define the following: Auto variables, Static variables, External variables, Register variables.	8
(b)	Explain in detail most commonly used dynamic memory allocation functions.	7
	 (a) (b) (a) (b) (c) (a) (b) (c) (a) 	 macros and functions. (b) Write a function, which takes an array of real numbers and its size as arguments and returns the maximum and the minimum. Using the above function write a program to read a set of real numbers from the keyboard and find the maximum and the minimum number in the array. (a) Define a pointer. Write a program to assign any number at random to an integer variable k and display the same through pointer. (b) Explain library string functions. Write a program to copy the contents of the string "HELLO" to another string embedding a blank between each of the characters. (a) Explain the following types of errors, which are considered while testing programs - Syntax errors, Run-time errors, Logical errors. (b) What is meant by identifiers? How do identifiers differ from keywords? (c) Write a program to find the sum & average of a given set of positive integers using the dowhile loop. (a) Distinguish between call-by-value and call-by-reference. Illustrate. (b) What is an array & how is an array variable different from an ordinary variable? (c) Give the difference between break & continue statement. (a) Define the following: Auto variables, Static variables, External variables, Register variables.
