PARUL UNIVERSITY FACULTY OF IT & COMPUTER SCIENCE BCA/IMCA Winter 2019-20 Examination

Semester: 1 Subject Code: 05101102 Subject Name: Fundamentals of Programming

Date: 27-11-2019 Time: 02:00 pm to 04:30 pm Total Marks: 60

Insta	actions:				
	questions are compulsory.				
	ures to the right indicate full marks.				
	ke suitable assumptions wherever necessary.				
4. Sta	rt new question on new page.				
Q.1	Answer the following.		[15]		
(a)	1. Define Algorithm.		[5]		
	2. What is Global Variable?				
	3. Write down types of macros.				
	4. Array index always start from	index value.			
/ = \	5. How to declare an array?		51.03		
(b)	1. Which of the following is not a valid C	variable name?	[10]		
	A) int number;	B) float rate;			
	C) int variable_count;	D) int \$main;			
	2. Input/output function prototypes and macros are defined in which header file?				
	A) conio.h	B) stdlib.h			
	C) stdio.h	D) dos.h			
	3. Break statement is used for				
	A) Quit a program	B) Quit the current iteration			
	C) Both of above	D)None of above			
	4. The keywords cannot be used as variable names.				
	A)True	B) False			
	5. A non-zero value is considered to be false and a zero value is considered to be true.				
	A)True	B) False			
	6. Which Header file is required for the ex. A) conio.h	B) stdlib.h			
	C) stdio.h	D) dos.h			
	7. What is the size of an int data type?				
	A) 4 Bytes	B) Depends on the System/Complier			
	C) 8 Bytes	D) None of these			
	8. What is the output of this C code?				
	#include <stdio.h></stdio.h>				
	int main(){				
	int i=10, j=3, k=3;				
	printf("%d %d %d", i,j,k);				
	}				
			Dogo 1 of 7		

	A) Compile time Error C) 10 3	B) 10 3 3 D) None of these			
	9. Array is used fordata type of element.				
	A) Homogeneous C) (A) and (B) both	B) Similar D) None of this			
	10. What is the index number of the last element of an array with 29 elements? A) 29 B) 28				
	C) 0	D) Programmer-defined			
Q.2	Answer the following. (Attempt any FIVE).		[15]		
	1. What is Flowchart? Draw a flowchart for swapping of two numbers.				
	2. What are the differences between while loop and do while loop?				
	 Define Program, Variable, Keyword What is constant? What are the different types of constant? Explain any one in brief. 				
	5. What is storage class? What are the different storage classes in C? Explain any one with				
	suitable example.Difference between complier and interpreter.				
	0. Difference between complier and inter	preter.			
Q.3	Attempt any THREE.		[15]		
	1. What is data type explain any four data types used in C language.		[5]		
	2. Write a C Program to print half pyramid as using * as shown in figure below with output.				
	*				
	* *				
	* * *				
	* * * *				
	* * * * * 3. Write down C Program to Check wheth	er a number is palindrome or not	[5]		
	4. Explain decision making control statements	-	[5]		
	+. Explain decision making control statements	in e language with Example.	[9]		
Q.4	Answer the following.		[15]		
(a)	Explain structure of C with example.		[5]		
(b1)	Explain one dimensional array with an example	e. Write pros and cons of array.	[5]		
(b2)	List out operator supported by C programming	Explain any three in detail.	[5]		
OR					
(b1)	Define array as array. What is the condition of	to do a two matrix addition and also write an algorithm	[5]		
	for addition of two matrix.				
(b2)	Explain switch statement with proper example		[5]		