P P SAVANI UNIVERSITY

Second Semester of Diploma Examination
May 2022
IDIT1010 Introduction to Computer Programming

09.06.2022,   Time: 10:00 a.m. To 12:30 p.m.   Maximum Marks: 60

Instructions:
1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION – I

Q - 1	MCQ/Short Question/Fill in the Blanks (Any Five)	[05]
(i)	C is _____ Level Language.	
(ii)	For one line condition which operator is used?	
	(a) ; ?	
	(b) ? :	
	(c) < =	
	(a) > =	
(iii)	_____ is the father of C Language.	
(iv)	Define token, identifiers and variables.	
(v)	State rule to define variables.	
(vi)	How many key words are there in C language?	
(vii)	What is flow chart?	
Q - 2 (a)	Write down c Program to calculate sum of three numbers. Also draw flow chart for same.	[05]
Q - 2 (b)	Define Flow Chart and Algorithm. Write an algorithm to swap two numbers.	[05]

OR

Q - 2 (a)	What is flowchart? Explain all terms of it.	[05]
Q - 2 (b)	Write a c program to find odd even numbers and write down an algorithm for the same.	[05]
Q - 3 (a)	What is C Language? Explain C Language Structure & its Different Components.	[05]
Q - 3 (b)	What are Data Types? Explain the Different Data Types with an example.	[05]

OR

Q - 3 (a)	Explain Various Operators used in C Language with appropriate example (any three example).	[05]
Q - 3 (b)	What is Type Conversion? Explain implicit & explicit Type casting with example.	[05]
Q - 4	Attempt anyone.	[05]
(i)	Explain Flow control in c with an example.	
(ii)	Explain Looping in c with an example.	

SECTION – II

Q - 1	Answer the Following: (MCQ/Short Question/Fill in the Blanks)	[05]
(i)	In do-while structure, the condition is checked at _____	
	(a) The Beginning of the loop	
	(b) The End of the loop only	
	(c) The Center of the loop	
	(d) Any Statement of the loop	
(ii)	Array is the collection of _____ datatype	
	(a) Different	
	(b) Same	
	(c) Both (a) and (b)	
	(d) None of the above	

(iii)	Which of the following is a logical OR Operator?		
	(i) &		
	(ii)||		
	(iii)&&		
	(iv) None of above.		
(iv)	How will you print \n on the screen?		
	(i) printf("\n");		
	(ii) printf('\n');		
	(iii) echo"\\n";		
	(iv) printf("\\n");		
(v)	How can we convert String from Upper Case to Lower case?		
	(i) Strupper		
	(ii) Strupr		
	(iii) Strlwr		
	(iv) Strlower		
(vi)	String is the collection for same datatype?		
	(a) True		
	(b) False		
(vii)	Correct the following code.		

```
void main
{
    int x = 10
    print('Hello c')
    printf("%d",x);
}
```

Q - 2 (a)	What is String? Explain String handling functions with examples.	**[05]**
Q - 2 (b)	What is Function? Define 3 States of a function with examples.	**[05]**

OR

Q - 2 (a)	What is Array? Define One D Array in brief.	**[05]**
Q - 2 (b)	Write a C program to get 2D Array (i.e a[2][2]) values from user and print those values in form of a Matrix.	**[05]**
Q - 3 (a)	Explain switch case with an example.	**[05]**
Q - 3 (b)	Write a C program to make following pattern using for loop.	**[05]**

```
*
**
***
****
```

OR

Q - 3 (a)	Write a C program to calculate area of circle.	**[05]**
Q - 3 (b)	What is Recursion? Explain with an example.	**[05]**
Q - 4	Attempt any one	**[05]**
(i)	Explain User Define Function in brief.	
(ii)	Explain Multidimensional Array in brief.	

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