

B.C.A Semester - 1 (CBCS) Examination
Oct/Nov. -2019 (OLD COURSE)

PROBLEM SOLVING METHODOLOGIES AND PROGRAMMING IN C(CORE)

Time: 2:30 Hours

Marks: 70

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate marks.

Question : 1 (A)	Answer the following questions.	04
(1)	Define : printf()	
(2)	Define : scanf ()	
(3)	Who invented C Language?	
(4)	Give definition : Algorithm.	
Question : 1 (B)	Answer the following question. (any one)	02
(1)	Explain C tokens.	
(2)	Draw all the symbols of flow chart with their meaning.	
Question : 1 (C)	Answer the following question. (any one)	03
(1)	Explain : Data Type available in C language.	
(2)	Draw a flow chart to check that given number is even or odd.	
Question : 1 (D)	Answer the following question. (any one)	05
(1)	Difference between traditional C and modern C.	
(2)	Write a short note on operator. Explain any two of them in detail.	
Question : 2 (A)	Answer the following questions.	04
(1)	Entry control loops are _____ and _____	
(2)	Exit control loop is _____	
(3)	Give syntax of : if condition	
(4)	Give syntax of : if...else condition	
Question : 2 (B)	Answer the following question. (any one)	02
(1)	Explain : break and continue statement.	
(2)	Describe : switch case statement.	
Question : 2 (C)	Answer the following question. (any one)	03
(1)	Explain : while loop in details.	
(2)	Explain : for loop in details.	
Question : 2 (D)	Answer the following question. (any one)	05
(1)	Describe ladder if else with example	
(2)	Write a program to print following output.	
	1	
	2 2	
	3 3 3	
	4 4 4 4	
	5 5 5 5 5	
Question : 3 (A)	Answer the following questions.	04
(1)	Explain strlen() function.	
(2)	Explain strcpy() function.	
(3)	Explain clrscr() function.	
(4)	Explain getch() function.	
Question : 3 (B)	Answer the following question. (any one)	02
(1)	What is library function? Explain it.	
(2)	What is pointer? Explain it.	

Question : 3 (C)	Answer the following question. (any one)	03
(1)	Write a short note : User Defined Function. (U.D.F.) in C language and explain any one with example.	
(2)	What is recursion? Explain it.	
Question : 3 (D)	Answer the following question. (any one)	05
(1)	Explain any five mathematical functions available in c Language.	
(2)	Give difference between call by value and call by reference in function.	
Question : 4 (A)	Answer the following questions.	04
(1)	Pointer variable can store the address of another variable. True or False.	
(2)	Array is collection of same data type. True or False.	
(3)	Which symbol is used to declare pointer variable?	
(4)	In structure, the . (dot) operator is used for what?	
Question : 4 (B)	Answer the following question. (any one)	02
(1)	Explain advantages of array.	
(2)	Explain limitations of array.	
Question : 4 (C)	Answer the following question. (any one)	03
(1)	Describe : structure	
(2)	Describe : nested structure.	
Question : 4 (D)	Answer the following question. (any one)	05
(1)	Explain array and all its type with example.	
(2)	Write a program to enter 10 values from keyboard and print minimum and maximum value.	
Question : 5 (A)	Answer the following questions.	04
(1)	Define : fclose() function.	
(2)	Define : feof() function.	
(3)	Define : ferror() function.	
(4)	Define : rename() function.	
Question : 5 (B)	Answer the following question. (any one)	02
(1)	Give difference between text file and binary file.	
(2)	Short note : File handling in C language.	
Question : 5 (C)	Answer the following question. (any one)	03
(1)	Describe : pointer to array	
(2)	Describe : pointer to pointer	
Question : 5 (D)	Answer the following question. (any one)	05
(1)	Explain any five file handling functions available in c Language.	
(2)	Explain use of pointer in dynamic programming.	
