

B.Sc.(IT) Semester - 1 (CBCS) Examination
Jan/Feb.-2022 (OLD COURSE)

PROBLEM SOLVING METHODOLOGIES AND PROGRAMMING IN C(CORE)

Time: 1:30 Hours

Marks: 42

Instructions:

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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- Question : 1 (A) Answer the following questions. 04**
- (1) How many keywords are there in C language?
 - (2) Who invented C Language?
 - (3) Give definition : Algorithm.
 - (4) Give definition : Flow-Chart.
- Question : 1 (B) Answer the following question. (any one) 02**
- (1) Draw all the symbols of flow chart with their meaning.
 - (2) Explain C tokens.
- Question : 1 (C) Answer the following question. (any one) 03**
- (1) What is data Type? Explain briefly.
 - (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) Define : Ternary operator.
 - (2) Exit control loop is _____
 - (3) Give syntax of : if...else condition
 - (4) Give syntax of : continue....statement
- Question : 2 (B) Answer the following question. (any one) 02**
- (1) Explain : break statement.
 - (2) Write down short note : 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 3
4 5 6
7 8 9 10
- 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) Define : Library function.
 - (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) Describe storage class available in C language.	
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/False).	
(2) Array is collection of _____ data type. (Same/Different).	
(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 : Union	
(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 store them in array. Now, find and print minimum and maximum value from them.	
Question : 5 (A) Answer the following questions.	04
(1) Define : ferror() function.	
(2) Define : rename() function.	
(3) Define : remove() function.	
(4) Define : eof() function.	
Question : 5 (B) Answer the following question. (any one)	02
(1) Short note : File handling in C language.	
(2) Explain command line arguments.	
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.	
