

MBO-003-2031002 Seat No. 100916

B. C. A. (Sem. I) (CBCS) (WEF-2019) Examination

February - 2021

Problem Solving Methodologies & Programming In C (New Course)

> Faculty Code: 003 Subject Code: 2031002

Γin	ne : 2	$2\frac{1}{2}$ Hours] [Total Marks:	70
i	(A)	Answer the Following.	4
		(1) C language was developed by	
		(2) What is Variable?	
		(3) is group of characters.	
		(4) What is Dry run?	
	(B)	Answer in Brief.	2
		(1) List out different tokens in C and explain any one	
		in brief.	
	(C)	Answer in Brief.	3
		(1) Briefly explain structure of C program.	
	(D)	Answer in Detail.	5
		(1) List out different logic development techniques and explain flowchart with example.	
2	(A)	Answer the Following.	4
	\ /	(1) What is Constant?	
		(2) Relational operators are also knows as	
		operators.	
		(3) List out different logical operators available in C.	
		(4) The range of Integer datatype is to	
	(B)	Answer in Brief.	2
	(12)	(1) Give difference between traditional C and Modern	
		C.	
	(C)	in the second	3
	(0)	(1) Briefly Explain pre-processor in C.	•
	(D)		5
	(1)	(1) Write note on datatypes in C.	•
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3	(A)	Answer the Following.	4
		(1) What is Loop?	
		(2) List out Ternary operators available in C.	
		(3) Write down syntax of While loop.	
		(4) In Goto statement the label is followed by	
	(B)	Answer in Brief.	2
		(1) Explain DoWhile loop with syntax and example.	
	(C)	Answer in Brief.	3
		(1) Explain IfElse with syntax and example.	
	(D)	Answer in Detail.	5
		(1) write note on different jumping statements.	
4	(A)	Answer the Following.	4
		(1) What is nested loop?	
		(2) Which type of value can be specified in switch statement?	
		(3) is known as exit controlled loop in c.	
		(4) Write down syntax of For loop.	
	(B)	Answer in Brief.	2
		(1) Write a program that perform nested if.	
	(C)	Answer in Brief.	3
		(1) Give difference between Break and Continue	
_		Statement.	
	(D)	Answer in Brief.	5
		(1) Write note on switch case statement.	
5	(A)	Answer the Following.	4
		(1) What is Function?	
		(2) Write down use of atof().	
		(3) Writedown use of fabs().	
		(4) Which Library file must be included to perform	
	(T))	string related functions.	
	(B)	Answer in Brief.	2
	(0)	(1) Explain getch() and getchar() with Example.	
	(C)		3
		(1) Give difference between call by value and call by	
	(T)	reference.	
	(D)	Answer in Detail.	5
		(1) Write note on different memory allocation functions.	
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6	(A)	Answer the Following.	4
		(1) Writedown use of fflush().	
		(2) Write down syntax for calloc().	
		(3) is used to return length of any given	
		string.	
		(4) Writedown use of strcmp().	
	(B)	Answer in Brief.	2
		(1) Explain toupper() and tolower() with Example.	
	(C)	Answer in Brief.	3
		(1) Explain Recursion with suitable example.	
	(D)	Answer in Detail.	5
		(1) Explain different Storage classes in C.	
7	(A)	Answer the Following.	4
		(1) Write down use of exit().	
		(2) .(dot) operator can be used to access of	
		structure.	
		(3) Array can be initialized at &	
		(4) What is nested structure?	
	(B)		2
		(1) Write note on String array.	
	(C)		3
		(1) Write down code to get 5 elements from user and	
		count how many are odd and how many are even.	
	(D)		5
		(1) Explain Array with Matrix by suitable example.	
8	(A)	Answer the Following.	4
		(1) List out types of array.	
		(2) keyword is used to create structure.	
		(3) Write down syntax for one dimension array.	
		(4) Array is datatype.	
	(B)	Answer in Brief.	2
		(1) Give difference between structure and union.	_
	(C)		3
		(1) Explain Structure with UDF by Example.	
	(D)		5
		(1) Write a program to get details of 5 students and	
		print it using array of structure.	

(1) Pointer can be declare using	and Binary file. 3 mple. 5 ntent of one
(3) What is datafile? (4) Pointer is datatype. (B) Answer in Brief. (1) Give difference between Text file and (C) Answer in Brief. (1) Explain pointer to pointer with exact (D) Answer in Detail. (1) Write down program code to copy confile into another file. 10 (A) Objective Type Questions (1) To indicate end of the file confiderable be used. (2) Pointer to pointer variable must be defined.	and Binary file. 3 mple. 5 mtent of one
 (4) Pointer is datatype. (B) Answer in Brief. (C) Answer in Brief. (D) Explain pointer to pointer with example (D) Answer in Detail. (D) Answer in Detail. (Explain pointer to pointer with example (D) Answer in Detail. (Explain pointer to pointer with example (D) Answer in Detail. (Explain pointer to pointer to copy confile into another file. (Explain pointer to pointer to pointer variable must be detailed. (Explain pointer to pointer variable must be detailed. 	and Binary file. 3 mple. 5 mtent of one
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be used. (2) Pointer to pointer variable must be de	haracter can
(2) Pointer to pointer variable must be de	
annume stantu atratum	
	eclared using
(0)	1
(3) indicate number of argun	nents to be
passed at command line argument.	(1 62)
(4) To Read data to the particular file,	the file must
be open in mode.	9
(B) Answer in Brief (Any 1 Out of 2)	2
(1) Explain Poiner to Array with suital	-
(C) Answer in Detail (Any 1 Out of 2)	3
(1) Explain Fseek() ,Ftell() and Rev	wind() with
example.	
(D) Write note on (Any 1 Out of 2)	
(1) Explain Command Line Argument v	5