CBCS SCHEME

57	USN	T	180	CPS13/23
1		DA	First/Second Semester B.E. Degree Examination, Jan./Feb. 20	12.1
*	CIV	IR	C Programming for Problem Solving	8
10	ANGALO	RE - 37	C Flogramming for Flobrem colving	
	Tin	ne: 3	3 hrs. Max. M	arks: 100
		NT	(atax Anguar any EU/E full avestions shoosing ONE full question from each me	dula
o;		11	ote: Answer any FIVE full questions, choosing ONE full question from each mo	ише.
to evaluator and /or equations written eg, $42+8=50$, will be treated as malpractic			Module-1	
mal	1	a.	Describe the various types of computers.	(10 Marks)
l as	-	b .	What is a printer? Explain the different types of printers.	(08 Marks)
eate		c.	Define software. Name the different types of software.	(02 Marks)
e tr				
ıll b			OR	
0, w	2	a.	Define operators. Illustrate all the operators used in C language.	(10 Marks)
= 5		b.	Write a C program to find the eligibility for voting. Draw the flow chart for the sa	
2+8				(10 Marks)
g, 4				
eu e	•		Module-2	armtor and
vritt	3	a.	Differentiate between entry control loop and exit control loop. Explain with	(10 Marks)
ns v		b.	example. Develop a C program to find the reverse of a positive integer and check for pal	
atio		υ.	not. Display appropriate message.	(08 Marks)
edn		c.	Explain with syntax, flowchart simple IF statement.	(02 Marks)
l /or		٠.	Explain with Sylicax, ne would simple it substitute.	,
and			OR	
ator	4	a.	Why conditional branching statements are needed in C program? Illustrate	5 types of
valu		٠.,	branching statements in C program.	(10 Marks)
to e		Ъ.	Write a C program to plot Pascal's triangle.	(08 Marks)
		c.	Explain loop control statement in C program.	(02 Marks)
app				
ion,			Module-3	
icat	5	a.	Define string. List all string manipulation functions. Explain any two with examp	les.
entif		.0		(10 Marks)
fide		b.	Write a C program to count vowels and consonants in a string.	(08 Marks)
1g 0		c.	Explain I/O functions for strings. CMRIT LIBRARY	(02 Marks)
ealiı			560 037	×
rev	_	2000	OK .	rith suitable
2. Any revealing of identification, appeal	6	a.	Define array. Write the syntax for declaring and initializing 1D and 2D array w	(10 Marks)
7.		ь.	example. Write a C program to find sum of diagonal elements of matrix.	(05 Marks)
		υ.	With a Chickeni to min pain of diagonal distinguity of manny.	()

Module-4

What is a function? Explain the different types of functions based on parameter. (10 Marks) 7

Explain recursions. Write a program to find factorial of a given number using recursive (10 Marks) function.

Write a C program to sort the numbers in ascending order using selection sort technique.

(05 Marks)

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OR

Write recursive functions for converting binary number to decimal number. 8

Write a program to sort n numbers using bubble sort technique and using iterative function. (10 Marks)

Module-5

Differentiate between structure and array. Explain the syntax of structure declaration in C with example. (08 Marks)

Implement structure to read and write Book_title, Book_author and Book_id for N books. (06 Marks)

Illustrate on:

Arrays within structures

Arrays of structure.

(06 Marks)

OR 4

What is a preprocessor? Explain types of preprocessor directives. (10 Marks) 10

Develop a program using pointers to compute the sum and average of all elements in an array. (10 Marks)