

## PAR-003-1021002

Seat No. \_\_\_\_\_

## P.G.D.C.A. (Sem. I) Examination

August / September - 2020

## CS-02: Problem Solving Methodologies and Programming in C

Faculty Code: 003

Subject Code: 1021002

Time	e: 2	$2\frac{1}{2}$ H	fours] [Total Mark	s: <b>70</b>
1	(A)	Objec	ctive type questions:	4
		•	What is the range of Character data type?	
		` ′	Write 2 built-in functions of stdio.h	
		(3)	Keywords are known as .	
			is an empty data type in C.	
	(B)	` ′	empt any one out of two.	2
		(1)		
		(2)	Explain Constants in C - Language.	
	(C)	Atte	empt any one out of two.	3
	` _	(1)	Draw a flowchart to find minimum value from the	;
			given three values.	
		(2)		
	(D)	Atte	empt any one out of two.	5
		(1)	Explain Data types in C - Language.	
		(2)	Draw a flowchart: Input 1 number and check	
			whether it is divisible by 7 or not.	
2	(A)	Objective type questions:		4
_	()	-	Which statement is known as branching statement?	
		` ′	Which operators are known as Conditional operator	
		` ′	Uses of Break statement.	
		` ′	Syntax of for loop.	
	(B)	. ,	empt any one out of two:	2
	(-)		Uses of ternary operator.	
		` ′	Explain Continue statement.	
PAR	<b>003</b>	` _	•	ontd

	(C)	Attempt any one out of two:			
		(1)	Explain jumping statements.		
		(2)	Explain switch case, in brief with an example.		
	(D)	Atte	empt any one out of two:	5	
		(1)	Print & calculate addition, multiplication & division of two values in one program using if() statement.		
		(2)	Expiain "While" loop with an example.		
3	(A)	Obje	ective type questions:	4	
		(1)	Toupper() is not used to convert character into		
			upper case. State the statement is True/False.		
		(2)	function is used to count length of a string.		
		(3)	Strcpy() is used to compare strings. State the statement is True/False.		
		(4)	ceil (4.1) =		
	(B)		empt any one out of two:	2	
	(-)	(1)			
		(2)			
	(C)				
		(1)	Write a program: Input one character from the	3	
		(2)	user. Check that character is digit or not.  Explain puts(), putch() and putchar() with an		
		(-)	example.		
	(D) Attempt any <b>one</b> out of two:				
	` '	(1)	Write a program to ask a value from user and print its Factorial. (Using recursion).		
		(2)	What is UDF? Explain any two types of UDF with		
			an example.		
4	(A)	Objective type questions:		4	
	( )	(1)			
		(-)	statement is True/False.		
		(2)	keyword is used to create union.		
		(3)	Which operator is used to access the member of		
		` /	structure?		
		(4)	Array is user defined data type. State the statement is True/False.		

2

[ Contd...

PAR-003-1021002 ]

	(B)	Attempt any one out of two:			
		(1) Explain 2D array.			
		(2) Explain about union with its syntax.			
	(C)	Attempt any one out of two:	3		
		(1) Explain array within structure.			
		(2) Accept 9 numbers from user and print it in form			
		of matrix. (3 X 4 matrix)			
	(D)	Attempt any one out of two:			
		(1) Input 5 numbers in array and print positive numbers.			
		(2) Create a structure named xyz that have member			
		variable num. Ask 5 values from user and display			
		its total on screen.			
5	(A)	Objective type questions:	4		
		(1) What are Pointers.			
		(2) operator use to declare pointer.			
		(3) Syntax of fopen().			
		(4) Syntax of fprintf().			
	(B)	Attempt any one out of two:	2		
		(1) Explain Pointer to Variables.			
		(2) Explain putw() and fseek().			
	(C)	Attempt any one out of two:	3		
		(1) Explain Pointers within structure.			
		(2) Explain command line arguments.			
	(D)	Attempt any one out of two:	5		
		(1) Explain Pointer to Array with example.			
		(2) Write a program to count number of character in file.			