

BRAINWARE UNIVERSITY

Term End Examination 2023 Programme - Dip.CSE-2022/Dip.ME-2022/Diploma in Robotics & Automation-2022/Dip.EE-2022/Dip.CE-2022

> **Course Name - Computer Programming** Course Code - ES202

(Semester II)

LIBRARY **Brainware University** Barasat, Kolkata -700125

Full Marks: 60

c) int

Time: 2:30 Hours

1 x 15=15

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

		Group-A
1.		oice Type Question) owing:
((i) Select the size of data type int in byte/s (16	bit compiler)
(i	a) 1c) 3ii) Identify the specifier that is used for integer	b) 2 d) 4
	a) %d c) %c	b) %f d) %a
	 i) Select the primary memory from the follow a) RAM c) Pendrive r) Identify the symbol which is used to represent 	b) Hard Disk d) CD
	a) Rectangle c) Circle Identify the true statement regarding algore	b) Diamondd) Square
(v:)	 a) A software application c) A step-by-step procedure for solving a problem Identify from the following that is not a ke 	b) A programming language d) A hardware component wword in C.
	a) int c) main Select the valid variable name.	b) float d) function
ativ E	a) hello	b) float d) char

	(VIII	J Select the meaning of X++ operator.		
		a) pre increment	b) post increment	
	(ix)	c) pre decrement Identify the keyword used to define a structure in	d) post decrement	
	(1//)	a) struct	b) strc	
		c) structure	d) STRUCTURE	
	(x)	Identify the logical operator from the following		
2		a) &	b) &&	
2		c) >>	d) <<	
		Select the meaning of the expression x+=5	i.v.,e	
Barasar, m		a) x=x+x c) x+5	b) x=x+5 d) x+5=x	
מ		Select the starting index of an array	a, x.s-x	
	viiera	Brainware unit	b) 1	
	760175) दे अंदर्भ के किया है। Choose why strien() function is used in string	d) 3	
	(xiii) (Choose why strien() function is used in string		
) copy string	b) adding strings	
) finding length	d) append strings	
		Choose the true statement about passing argume		
) Arguments must be passed by reference) Arguments can be passed by value or by	b) Arguments can only be passed by value	
	٠,	reference	d) None of the above	
	(xv) C	hoose the datatype you should use when definir	ng a function that returns an integer	
		alue in C language.		
	a)	int	b) float	
	c)	char	d) double	
		Group		
		(Short Answer Ty	pe Questions)	3 x 5=15
	2 Dofin	e a flowchart to add two numbers.		
		the difference between primary and secondary	/ maman/	(3)
		rentiate between while and do-while loop.	memory.	(3) (3)
		the difference between actual parameters and	formal parameters.	(3)
		a program to calculate the sum of digits of a gi		(3)
		amming.		(-)
		OR		
	Write	a C program to find the sum of natural numbe	rs using recursion.	(3)
		Group		
		(Long Answer Ty	pe Questions)	5 x 6=30
7	. Write	a program in C to print numbers from 1 to 10	using an array and also find the sum of	all (5)
	eleme	ents of the array.		d 8
8	. Defin	e an algorithm. Write its characteristics. [2+3]		(5)
9	. Defin	e a flowchart to find the largest among three	different numbers.	(5)
1	u. Explai	n the concept of nested loops in C programm	ing. Provide an example.	(5)
1	ı. Write	a C program to swap two numbers using a fu	nction.	(5)

12. Write a C program to find the sum of digits of a number using recursion.	(5)
OR Write a program in C to find the factorial of a given number using recursion.	(5)

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