



Library Brainware University 398, Ramkrishnapur Road, Barasat Kolkata, West Bengal-700125

## **BRAINWARE UNIVERSITY**

Term End Examination 2024-2025 Programme - Dip.CE-2024/Dip.CSE-2024/Dip.EE-2024/Dip.ME-2024/Dip.RA-2024 **Course Name - Computer Programming** Course Code - DES00004 (Semester II)

Time: 2:30 Hours Full Marks: 60 [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

(Multiple Choice Type Question)

1 x 15=15

- Choose the correct alternative from the following:
- (i) Identify the input unit
  - a) Key board

b) Speaker

c) Monitor

- d) Printer
- (ii) Select the correct option: a pointer value refers to
  - a) A float value

- b) An integer constant
- c) Any valid address in memory
- d) None
- (iii) Select the result of logical or relational expression in C from the following
  - a) True or False

- b) 0 or 1
- c) 0 if an expression is false and any positive number if an expression is true
- d) None of the mentioned
- (iv) Choose the correct option in C where the order of precedence of operators do not exist
  - a) Within conditional statements, if, else
- b) Within while, do-while

c) Within a macro definition

- d) None of the mentioned
- (v) Choose from the following option to show the byte in sizeof(char) in a 32-bit C compiler
  - a) 1 bit

b) 2 bits

c) 1 Byte

d) 2 Bytes

- (vi) Define NULL pointer in C.
  - a) A pointer that points to the number 0
  - c) A special pointer value representing an

b) A pointer that has an invalid address

- empty or uninitialized pointer
- d) A pointer to a void type

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(vii)	Predict the output of the following C program code. #include int main() { int m=15; int *p; p=&m printf("%d %d",p,*p); return 0; }				
	a) 'address of m' 15	b) 15 15			
	c) 'address of p' 15	d) run time error			
•	Select pointer arithmetic in C.				
	<ul> <li>a) arithmetic operation on the values of the pointer</li> </ul>	b) arithmetic operation on the memory a stored in the pointer	address		
	c) arithmetic operation on the values of the pointer and other integer variable	d) convert			
(ix)	Select correct answer for fill in the blank, "Array co	an be expressed as data			
(,	structure"				
	a) Heterogeneous	b) homogeneous			
	c) Both heterogeneous & homogeneous	d) none			
(x)	Choose the function that is used to read a charact	er			
	a) puts()	b) gets()			
(vi)	c) getchar()	d) putchar()			
(xi) Identify the output of the following code: int array[5] = {1, 2, 3, 4, 5}; printf("%d", array[2]);					
	a) 1	b) 2			
(vii)	c) 3 Identify the correct way to declare an integer arra	d) 4			
(XII)		•			
	a) int array[] c) array int[10]	b) int array[10] d) int[] array			
(xiii)	(xiii) Choose from following that is true about FILE *fp				
	a) FILE is a structure and fp is a pointer to the structure of FILE type	b) FILE is a buffered stream			
	c) FILE is a streamow	d) FILE is a keyword in C for representing and fp is a variable of FILE type	files		
(xiv) Choose the option for following mode of argument is used to truncate.					
	a) a	b) w			
/ \	c) t	d) f			
(xv)	Select the meaning of r+ mode in file	h) bash anding and making			
	<ul><li>a) reading only</li><li>c) writing only</li></ul>	<ul><li>b) both reading and writing</li><li>d) editing</li></ul>			
	c) writing only	a, cag			
	Group				
	(Short Answer Ty	pe Questions)	3 x 5=15		
2 D	escribe the purpose of file handling in C.		(3)		
	xplain the process to link the C program with the re	equired library modules	(3)		
4. Write down the advantages of using structures in C.			(3)		
5. Write a program in C for calculating factorial of a number			(3)		
6. E	6. Explain for loop with Example. (3)				
E.	OR xplain recursive function.	. A second of the second of th	(3)		
E	Apiani recursive ranetion.		(3)		
Group-C					
(Long Answer Type Questions) 5 x 6=30					

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7. Explain call by reference in C programming with example.  Kolkata, West Bengal-700125	(5)
	(5)
9. Write a program to assign a structure variable to another structure variable.	(5)
10. Analyze different loops with example	(5)
	(5)
12 14/	(5)
OR OR	
Write a C program to find the sum of the first 10 natural numbers using a for loop and explain the working style of loop	(5)
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