



BRAINWARE UNIVERSITY

Term End Examination 2023 Programme – B.Tech.(RA)-2022 Course Name - Programming for Problem Solving Course Code - ESCR201 (Semester II)



Full Marks: 60

Time: 2:30 Hours

[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 name having a few letters, numbers and special character '_' is called
 - a) keywords

b) reserved keywords

c) tokens

- d) identifiers
- (ii) When function call itself, define it is a concept of
 - a) loop

b) iteration

c) function

- d) recursion
- (iii) identify which of the following operator is used to access elements of a structure (without pointer)?
 - a) dot

b) arrow

c) direction

- d) indirection
- (iv) Select the use of the bitwise OR operator
 - a) set the desired bits to 1

b) set the desired bits to 0

c) divide numbers

- d) multiply numbers
- (v) Estimate the number of operand/s is/are required for using modulo operator?
 - a) 1

b) 2

c) 3

- d) 4
- (vi) Estimate the elements of an array stored in
 - a) contiguous manner

b) non-contiguous manner

c) random manner

- d) all of the mentioned
- (vii) Select the correct option for the following An array elements are always stored in memory locations.?
 - a) Sequential

b) Random

	c) Sequential and Random	d) None of the above		
	(viii) Classify the type short int in C programming	?		
		b) Qualifier		
	a) The basic data type of Cc) Short is the qualifier and int is the basic data			
		All of the mentiones		
3	type (ix) Identify Which of the following declaration is not supported by C language?			
-/0012	· To the	b) char *str;		
2	a) String str;	d) Both a and b		
	c) float str = 3e2;	c) float str = 3e2; (x) Idea fy the true option, If p is an integer pointer with a value 1000, then what will the		
	(x) Identy the true option, if p is all integer point			
	value of p + 5 be?	b) 1005		
į	a) 1 22 0	d) 1010		
	c) 1004 (xi) Identify Which of the following best defines the use of continue keyword?			
		b) Terminate the program		
	a) Terminate the loop			
	c) Terminate the current iteration and move	to d) Restart iteration from the very f	irst iteration	
	next iteration			
	(xii) In C language, identify the data type of FILE?	b) char *		
	a) int	d) All of the mentioned		
	c) struct	이 맛을 잃었다면 살았다. 그는 그 살아 있는 그렇게 하는 것이 되었다면 하는 것이 그 모든 것이 없는 것이 없다면		
	(xiii) Define #include <stdio.h><stdio.h></stdio.h></stdio.h>			
	 a) Preprocessor directive 	b) Inclusion directived) None of the mentioned		
	c) File inclusion directive			
	(xiv) Identify String represented in memory in C?	1 X 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	a) An array of characters.	b) The object of some class.		
	 c) Same as other primitive data types. 	d) LinkedList of characters.		
	(xv) Identify the example of iteration in C?			
	a) for	b) while		
	c) do-while	d) all of the mentioned		
	c	Group-B		
	(Short Answer Type Questions)		3 x 5=15	
	2. Classify data types available in C programming language.			
3. Explain the types of C instructions			(3)	
4. Write a C program to mpute the sum of the first 10 natural numbers			(3)	
5. Explain the difference between iteration and recursion with proper example.			(3)	
	6. Define a sequen al access file.		(3)	
		OR	102.11	
	Define Null pointer.		(3)	
		iroup-C		
		er Type Questions)	5 x 6=30	
	(Long Answer	Type Questions)	3,70 30	
	7. Describe a computer system with suitable block diagram.		(5)	
	8. Explain recursion. Explain how the recursion works.		(5)	
	9. Explain the difference between an array and a structure.		(5)	
	10. Explain exit controlled loop in 'C' with proper example.		(5)	
	11. Write a C Program to Count the Number of Vov	(5)		
	12. Write a program to sort an array in Ascending Order.			
			(5)	

(5)