



BRAINWARE UNIVERSITY

Term End Examination 2023 Programme - B.Tech.(CSE)-AIML-2021/B.Tech.(CSE)-AIML-2022 Course Name - Programming for Problem solving Course Code - ESCM201

(Semester II)

Brainware University Brainware University
Brainware Wolkata - 700125
Barasat, Kolkata - 700125
Barasat, 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) Choose the correct option that is/are used for dynamic memory allocation
 - a) allocate

b) malloc

c) calloc

- d) Both calloc and malloc
- (ii) Choose the correct option for Address of Operator
 - a) *

b) &

c) **

- d) None
- (iii) Define structure in C language
 - a) A structure is a collection of elements that

can be of same datatype

b) A structure is a collection of elements that can be of different datatype

c) Both a and b

- d) None
- (iv) if block is associated with else block- select the correct option
 - a) Sometimes

b) always

c) not always

- d) depends
- (v) Select the Number of elements at \"int arr[2][2]\"
 - a) 2

b) 4

c) 8

d) 6

- (vi) Identify the input unit
 - a) Key board

b) Speaker

c) Monitor

- d) Printer
- (vii) Choose the function Which is used to read a character.
 - a) puts()

b) gets()

c) getchar()

d) putchar()

(viii	Select the correct way to assign char value is (sa a) x=\"c\";		
	a) x=\"c\".	ay char x;)	
	c) x= c;	b) x='c';	
(ix)	Identify the ternary and and	d) None of these	
	Identify the ternary operator from the following a) >	3	
	c) ?:	b) <	
(x)			
	Choose which one is correct \"Return statemen a) Calling function	t in function returns control to\"	
	a) Calling function c) Both	b) Called function	
(xi)	Choose the		
,	Choose the correct one-Function declared with warning or error is	out body after the header file to avoid	
	a) Argument c) Prototype	b) Parameter	
(xii)	Identify the him and	d) None of these	
(/////	Identify the binary operator from the followin		
Sith	a) + FARAGU	b) -	
STON	Select the size of data type character in byte/s a) 1 c) 3	d) All of the above	
(XIII)	select the size of data type character in byte/s		
	a) 1 ~~~ (15.7)	b) 2	
	c) 3	d) 4	
(XIV)	Select the number of operands required for usin	g bitwise right shift operator	
	a) 1	b) 2	
	c) 3	d) 4	
(xv)	Write where the Library functions for handling fi	les are included in	
	a) stream.h	b) conio.h	
	c) stdlib.h	d) files.h	
	Grou	un.P	
	(Short Answer T	•	
	and the second s	ype Questions;	3 x 5=15
2 De	scribe syntax errors with an example.		
3. Differentiate between while and do-while loop.			(3)
	strate a C program to find the value of the 1st ele	ement of an array	(3)
5. Explain the different modes in which files can be opened in C?			(3)
6. Write a program in C for calculating factorial of a number			(3)
	OF		(3)
Wr	ite a C program to check if a number is odd or ev	en.	(2)
			(3)
	Grou		
	(Long Answer Ty	pe Questions)	
			5 x 6=30
7. Co	ompare among flowchart and algorithm.		
9 1/1	Write a C program to find the greatest among two numbers using a conditional		
3 \//	Write a Dideralli to lead date warman and		
10. Write a program to count the number of words in a file in C.			(5)
11 int z $x = 5$, $y = -10$, $a = 4$, $b = 2$; $z = x + + y + b/a$; Find the Value of z			(5)
12. Re	frame a program to Copy data from a file to anot	ner file in C.	(5)
	OR	a File Handling	(5)
Co	mpare between write mode and append mode in	rine Handling in C. Justify your answer	(E)
wi	th a program.		(5)