

--	--	--	--	--	--	--	--	--	--	--	--



GIET UNIVERSITY, GUNUPUR – 765022

B. C. A (First Semester) Examinations, March' 2023

BCA20103 - C Programming

Time: 3 hrs

Maximum: 70 Marks

The figures in the right hand margin indicate marks.**PART – A: (Multiple Choice Questions)****(1 x 10 = 10 Marks)****Q. 1 Answer ALL questions**

- | | CO # | PO # |
|---|------|------|
| a. scanf() is a predefined function in _____ header file. | CO1 | PO2 |
| (i) stdlib. h | | |
| (ii) ctype. h | | |
| (iii) stdio. h | | |
| (iv) stdarg. h | | |
| b. In the C language, the constant is defined _____. | CO1 | PO1 |
| (i) Before main | | |
| (ii) After main | | |
| (iii) Anywhere, but starting on a new line. | | |
| (iv) None of the these. | | |
| c. A mode which is used to open an existing file for both reading and writing | CO4 | PO2 |
| (i) "W" | | |
| (ii) "W+" | | |
| (iii) "R+" | | |
| (iv) "A+" | | |
| d. How are string represented in memory in C? | CO3 | PO1 |
| (i) An array of characters | | |
| (ii) The object of some class | | |
| (iii) same as other primitive data types | | |
| (iv) LinkedList of characters | | |
| e. How to declare a double-pointer in C? | CO2 | PO2 |
| (i) int *val | | |
| (ii) int **val | | |
| (iii) int &val | | |
| (iv) int *&val | | |
| f. Explicit type conversion is known as | CO1 | PO1 |
| (i) Casting | | |
| (ii) Conversion | | |
| (iii) Disjunction | | |
| (iv) Separation | | |
| g. A pointer to a pointer is a form of | CO2 | PO1 |
| (i) multiple indirections | | |
| (ii)) a chain of pointers | | |
| (iii)) both a and b | | |
| (iv) None of these | | |
| h. Array subscripts in C always start at | CO1 | PO2 |
| (i) -1 | | |
| (ii) 1 | | |
| (iii) 0 | | |
| (iv) Value provided by the user | | |
| i. What should be the expression return value for a do-while to terminate | CO1 | PO1 |
| (i) 1 | | |
| (ii) 0 | | |
| (iii) -1 | | |
| (iv) NULL | | |
| j. getc() returns EOF when | CO4 | PO1 |
| (i) End of File is reached | | |
| (ii) When getc() fails to read a character | | |
| (iii) Both of the above | | |
| (iv) None of the above | | |

PART – B: (Short Answer Questions)**(2 x 10 = 20 Marks)**Q.2. Answer ALL questions

	CO #	PO #
a. Define algorithm?	CO1	PO1
b. What is the difference between source code and object code?	CO1	PO2
c. What is pointer to pointer in c?	CO2	PO1
d. What is recursion in c?	CO1	PO1
e. Write a c program to print hello world without using semicolon (;).	CO1	PO1
f. Explain the difference between prefix increment and postfix increment.	CO1	PO2
g. What is meant by looping?	CO1	PO1
h. Difference between user defined and built function?	CO4	PO2
i. 1. What is the output: <pre>int main() { int x = 5; int y = 3; printf("%d", x > 3 x < 4); return 0; }</pre>	CO1	PO1
j. Explain meaning of printf() statement?	CO1	PO1

PART – C: (Long Answer Questions)**(10 x 4 = 40 Marks)**Answer ALL questions

	Marks	CO #	PO #
3.a. Write a c program check a number is prime or not.	6	CO1	PO1
b. Explain the Execution cycle of a C program.	4	CO1	PO2
(OR)			
c. Write a C program to find out Multiplication of matrices	6	CO2	PO1
d. Difference between formal and actual argument in function?	4	CO2	PO1
4.a. Write a c program to manipulate student grades using if-else ladder.	6	CO1	PO1
b. What is the difference between while and do-while loop?	4	CO1	PO2
(OR)			
c. Give one example of function returning pointer.	5	CO2	PO1
d. Write a C program for Function with parameter & return values	5	CO2	PO1
5.a. Write a c program to print customer details using c.	5	CO3	PO1
b. Explain structure briefly.	5	CO3	PO2
(OR)			
c. Explain dynamic memory allocation briefly.	5	CO4	PO2
d. Explain file handling briefly.	5	CO4	PO2
6.a. What is the difference between structure and function?	5	CO3	PO2
b. Explain enumeration.	5	CO3	PO1
(OR)			
c. What is the difference between fscanf() and fprintf().	5	CO4	PO2
d. Write a program to create a file in c.	5	CO4	PO1

--- End of Paper ---