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GIET UNIVERSITY, GUNUPUR – 765022

B. Tech (First Semester) Examinations, April / May – 2021

BESBS1040 – PROGRAMMING FOR PROBLEM SOLVING

(Common to all branches)

Time: 2 hrs

Maximum: 50 Marks

Answer ALL Questions

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. C is a which level language.?	1	1
A. Low Level		
B. High Level		
C. Low + High		
D. None		
b. Which of the following is not a valid C variable name?	1	1
A. int number;		
B. float rate;		
C. int variable_count;		
D. int \$main;		
c. Which one of the following is a loop construct that will always be executed once?	2	1
A. for		
B. while		
C. switch		
D. do while		
d. What is the output of the C Program.?	1	1
<pre>int main() { if(4 > 5) { printf("Hurray..\n"); } printf("Yes"); return 0; }</pre>		
A. Yes		
B. Hurray		
C. Hurray..Yes		
D. Compiler error		
e. Which of the following are themselves a collection of different data types?	4	1
A. string		
B. structures		
C. char		
D. all of the mentioned		
f. A pointer is	4	1
A. A keyword used to create variables		
B. A variable that stores address of an instruction		
C. A variable that stores address of other variable		
D. All of the above		
g. An array elements are always stored in _____ memory locations.	2	1
A. Sequential		
B. Random		
C. Sequential and Random		
D. None of the above		
h. Which of the following function is more appropriate for reading in a multi-word string?	3	1
A. printf();		
B. scanf();		
C. gets();		
D. puts();		
i. The library function used to find the last occurrence of a character in a string is	3	1
A. strnstr()		
B. laststr()		
C. strrchr()		
D. strstr()		
j. What are the different types of real data type in C ?	1	1

- A. float, double
C. float, double, long double

- B. short int, double, long int
D. double, long int, float

PART – B: (Short Answer Questions)

(2 x 5 = 10 Marks)

Q2. Answer ALL questions	CO #	PO #
a. Define Constant and variable in C.	1	1
b. Write the syntax of for loop with example.	1	1
c. Write a program to read and display the elements using 2-D array.	2	1
d. What is a function? Write the types of functions.	3	1
e. What is meant by call-by value and call-by reference?	4	1

PART – C: (Long Answer Questions)

(6 x 5 = 30 Marks)

<u>Answer ANY FIVE questions</u>	Marks	CO #	PO #
3. Write a C program to compute simple interest	(6)	1	2
4. Explain if, if-else and nested if-else with examples and syntax.	(6)	1	2
5. Write a C program to find the multiplication of two matrix using two-dimension array.	(6)	2	2
6. Define array with suitable example how to declare and initialize 1-D array.	(6)	2	2
7. Write a c-program using function to check whether the given number is prime or not.	(6)	3	2
8. Write a C program to concatenate two strings without using built-in function strcat()	(6)	3	2
9. What is a pointer? Explain how the pointer variable declared and initialized.	(6)	4	2
10. Write a program in C to find the sum and mean of all elements in an array by using function.	(6)	4	2

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