

USN																					
FIRST Semester B. E. Degree Semester End Examination (SEE), Jan/ Feb 2024																					
Concepts of C Programming																					
(Model Question Paper - 1)																					
[Time: 3 Hours]											[Maximum Marks: 100]										
<u>Instructions to students:</u>																					
<p style="text-align: center;">i. Answer FIVE FULL Questions as per choice. ii. Use BLACK ball point pen for text, figure, table, etc.</p>																					

Module-1

		Marks	CO	RBT Level
1.	a) List and explain the characteristics of a computer	[06 Marks]	CO1	L2
	b) Discuss the different types of computers.	[07 Marks]	CO1	L2
	c) Define computer? Explain the generations of computer	[07 Marks]	CO1	L2

OR

2.	a) Explain the organization of a computer with the help of a neat block diagram.	[06 Marks]	CO1	L2
	b) Write a short note on i) Computer hardware ii) Computer software	[07 Marks]	CO1	L2
	c) Define network topology. Explain its types with neat diagram.	[07 Marks]	CO1	L2

Module-2

3.	a) What is Token? What are different types of tokens available in C language? Explain	[9 Marks]	CO2	L2
	b) What is data-type? Explain basic data types supported by C with a suitable example	[6 Marks]	CO2	L2
	c) Write a C Program to calculate IHP, BHP, CR for a four stroke gas engine	[5 Marks]	CO2	L3

OR

4.	a) Explain different input output statements in C with appropriate syntax and examples.	[08 Marks]	CO1	L2
	b) Explain Logical operators with appropriate examples.	[06 Marks]	CO2	L2
	c) Explain arithmetic operators with examples	[06 Marks]	CO2	L2

Module-3

5.	a) Explain simple if else statement with syntax and example.	[06 Marks]	CO2	L2
	b) Write the syntax of switch. Explain the switch with simple calculator program	[08 Marks]	CO2	L3
	c) Compare and contrast do – while and while loops with an example	[06 Marks]	CO2	L2

OR

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|----|----|--|------------|-----|----|
| | a) | Demonstrate the working of break and continue statement with suitable example esort. | [5 Marks] | CO2 | L2 |
| | b) | Compute the roots of a quadratic equation by accepting the coefficients. Print appropriate messages. | [10 Marks] | CO3 | L3 |
| 6. | | Develop a C program to print the following pattern. | [5 Marks] | CO3 | L2 |
| | c) | *
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Module-4

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|----|----|---|------------|-----|----|
| 7. | a) | Develop a C program to implement matrix multiplication and validate the rules of multiplication | [10 Marks] | CO3 | L3 |
| | b) | Write a C program to sort the given set of N numbers using Bubble sort | [10 Marks] | CO3 | L3 |
| | | OR | | | |
| | | Using suitable code, Discuss the working of the following string functions | [08 Marks] | CO2 | L2 |
| | | i. Strcat | | | |
| | a) | ii. Strlen | | | |
| | | iii. Strstr | | | |
| 8. | | iv. Strcmp | | | |
| | b) | Write a program in C to print individual characters of a string in reverse order. | [06 Marks] | CO4 | L3 |
| | c) | Develop a C program to concatenate two strings without using built-in function | [06 Marks] | CO4 | L3 |

Module-5

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|-----|----|--|------------|-----|----|
| 9. | a) | Write a program to find biggest of three integers using functions | [08 Marks] | CO4 | L3 |
| | b) | Write functions to implement string operations such as compare, and find string length. Use the parameter passing techniques | [12 Marks] | CO4 | L3 |
| | | OR | | | |
| | a) | Write note on Automatic, Static storage classes | [04 Marks] | CO2 | L2 |
| | b) | Write a program to print the Fibonacci series using recursion | [08 Marks] | CO4 | L3 |
| 10. | c) | Write functions to implement string operations such as copy and concatenate using user defined functions | [08 Marks] | CO4 | L3 |
