4

6

4

6

2

1

3

1

2



the answer and display.

user. (Note: Fahrenheit = (9/5) * Celsius) + 32).

(a)

(b)

(b)

5 (a) Institution Affiliated to Visvesvaraya Technological University, Belagavi New Delhi

Academic year 2021-2022 (Odd Sem)

DEPARTMENT OF **COMPUTER SCIENCE AND ENGINEERING** Maximum Marks | 50 Date Course Code | 21CS13 **Duration** 90 Minutes Sem | I Semester PROGRAMMING IN C (CHEMISTRY CYCLE) Sl. No. Questions M BT CO What is a program? With an example C program, explain the structure of a typical C 4 1 1 (a) Write an algorithm and a flowchart to compare two numbers and print either the **(b)** 3 2 6 message identifying the greater number or the message stating that both numbers are equal. What is a machine language? Mention the advantages and disadvantages of machine 2 2 (a) language? Write an algorithm and a flowchart for calculating the simple interest using the 6 3 2 **(b)** formula SI = (P * T * R)/100, where P denotes the principal amount, T time, and R rate of interest. What is a compiler, interpreter, linker and loader? Give the difference between 1 1 (a) compiler and interpreter. Magical pond: In a lake, there is a patch of lily pads. Every day, the patch doubles in **(b)** 3 2 size. If it takes 48 days for the patch to cover the entire lake, how long would it take for the patch to cover half the lake? Write a C **program** to take solve this puzzle.

Course	Course Outcomes						
CO1:	Describe the fundamental computer concepts and syntax of C programming.						
CO2:	Apply logical skills to design and develop algorithms/flow charts to solve real-world problems.						
CO3:	Analyse the logic of the program and output obtained using different sets of input.						
CO4:	Design and develop programs using appropriate data structures and functions in C language.						

Read the input from the user i.e., number of days taken to cover the patch, compute

Write a C program to convert Celsius to Fahrenheit. Read value for Celsius from the

Write a C Program to find the size of int, float, double and char datatypes.

Describe the different categories of operators that are included in C.

What is a token? Describe the five classes of token in C. Give examples for each.

BT-Blooms Taxonomy, CO-Course Outcomes, M-Marks

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	Particulars	CO1	CO2	CO3	CO4	L1	L2	L3	L4	L5	L6		
Marks													
Distribution	Test	28	22	0	0	14	14	22	0	0	0		
	Max Marks												