

Course Name:

Course Outcome

CO1: Understand the basic concepts of problem-solving skills.

CO2: Apply the basic principles of programming in the C language.

CO3: Work with user input to create fun and interactive programs. Use in-built functions and library defined in C Language.

CO4: Apply the concepts of functions to solve real-world problems.

CO5: Acquire programming skills in core Computer Programming: flow control structure in C Language.

Build basic programs using fundamental programming constructs like variables, conditional logic, looping, and functions (built-in)

CO6: Develop algorithmic solutions to simple computational problems.

Printed Pages: 02

University Roll No.

Mid Term Examination, Odd Semester 2022-23

B.Tech (CS/EC(CS)), 1st Year, 1st Semester

BCSG 0002 Computer Programming

Time: 2 Hours

Maximum Marks: 30

Instruction for students:

1. Read question paper carefully.
2. Don't over write.
3. Write the complete code in one place neatly.
4. Maintain appropriate curly braces and syntax while writing program if needed.
5. Commenting code is optional

Section – A

Attempt All Questions

3 X 5 = 15 Marks

No.	Detail of Question	Marks	CO	BL	KL
1	Is there any difference between while and do while? If yes, then explain with suitable example.	3	CO5	R	D
2	Write a program input any number and check if number is Positive then print "Girls are best". If number is Negative print "Boys are best". If number is Zero Print "Both are best". Example: Input Enter number is 5 Output Girls are best	3	CO4	C	PC
3	a) What is the output of the following program: #include <stdio.h> int main() { int i=0, j=1, k; k=(i<5) && (j>10); printf("k=%d",k); return 0; } b) Write any five reserved words.	1.5 + 1.5	CO4	An	PC
4	Write a C program to input week number (1-7) and print day of week name using switch case. Example Input Input week number (1-7): 2 Output Tuesday	3	CO6	E	DI

5	<p>a) What is the output of the following program</p> <pre>#include <stdio.h> int main() { int k=1; while(k) { printf("JAI GLA "); k++; } return 0; }</pre> <p>b) What is the use of Data type? Write any Two Data type using in C programming?</p>	1.5 + 1.5	PC4	An	PC
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Section – B

Attempt All Questions

5 X 3 = 15 Marks

No.	Detail of Question	Marks	CO	BL	KL
6	<p>Write a program to print the following pattern</p> <pre>1 12 123 1234 12345</pre>	5	CO6	P	DI
7	<p>a) Write a short note on break continue goto</p> <p>b) What is the output of the following program</p> <pre># include <stdio.h> int main() { int a=2,b=2; a!=b?printf("both are equal");printf("both are not equal"); return 0; }</pre>	3 + 2	CO2	R	F
8	<p>Write a C program to input a number from user and check whether given number is Armstrong number or not. Example Input Input number is 371 Output 371 is Armstrong number</p> <p>OR</p> <p>Write a C program to print Fibonacci series up to n terms using loop. Example: Input Enter number is 10 Output Fibonacci series: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34</p>	5	CO1	E	D