

Indian Institute of Information Technology Ranchi			
Department of ECE/CSE			
B. Tech Mid Semester Examination – Autumn Semester 2022-23			
Semester: 1st		Branch: ECE/CSE/ECE(ES&IoT)/CSE(DS&AI)	
Course Code: CS 1001		Course Name: Computer Programming: Concepts and Practices	
QUESTION PAPER			
Duration: 2 hrs.		Max Marks: 60	
Instructions: (1) Answer all the questions. Number in [] indicates marks. (2) Scientific calculator is allowed in the examination. (3) Any missing data can be assumed suitably. (4) All symbol have there usual meaning.			
1	(a)	What will be the output of the following program? <pre>#include <stdio.h> void main() { printf("%d", printf("IIITRanchi")); }</pre>	[2]
	(b)	If an integer needs four bytes of storage, then the maximum value of a signed integer is?	[2]
	(c)	What will be the output of the following program? <pre>#include <stdio.h> void main() { printf("%c", 120); }</pre>	[2]
	(d)	The following program fragment results in the printing of: <pre>for(i=1; i<20; i+=3); printf("%d",i);</pre>	[3]
	(e)	The following program fragment results in the printing of: <pre>for(i=1; i<5; ++i) if (i==3) continue; else printf("%d", i);</pre>	[3]
	(f)	Write the differences between break and continue statements with suitable examples.	[3]
2	(a)	Explain the syntax of writing 'for' loop and write a program to display the following pattern: for n = 5 <pre>***** * * * * * * * * * * * * * * * * * * * * * * * * * * * *</pre>	[6]