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Roll no. ....

Degree: **B.tech.** Semester: **One**  
**MID-SEMESTER EXAMINATION, February, 2024**

Course Title: Computer Programming (Backlog)

Course Code: FCCS002

Duration: 1:30 Hours

Max.Marks: 15

**Note:** - Attempt all questions in the given order only. Missing data/information (if any), maybe suitably assumed & mentioned in the answer.

Q. No.	Question	Marks	CO
1a	What is the purpose of printf() and scanf() statement?	1	1
1b	Explain the following operators: a. Logical Operators b. Bitwise operators	2	1
2a	Define an array. How are 1-D and 2-D arrays declared and initialized?	1	1
2b	What will be the output of the following code? a. <pre>#include &lt;stdio.h&gt; int main() {     int i = 0, j = 0;     while (i &lt; 5 &amp; j &lt; 10)     {         i++;         j++;     }     printf("%d %d", i, j); }</pre> b. <pre>#include &lt;stdio.h&gt; main() {     int i = 1;     for(;;)     {         printf("%d", i);         if(i == 5)             break;     } }</pre>	2	2

	}		
3a	What do you mean by NULL pointer? Give an example.	1	2
3b	Write a program in C to swap two numbers without using a third variable.	2	3
4a	Explain how break and continue statements are used with examples.	1	2
4b	What is the difference between structure and union? Explain with the help of an example.	2	3
5a	What is the output of the following code? #include<stdio.h>  int main() { const int i=0; printf("%d\n", i++); return 0; }	1	1
5b	Write short notes on the following: a. strlen() b. strcpy() c. strcmp() d. strcat()	2	2