UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, Dec 2022

Program Name : **Bachelor's in Computer Application**   **Semester** : **1st**
Course Name : **Problem Solving Using C**   **Time** : **3 hr**
Course Code : **CSEG1016**   **Max. Marks : 100**
Nos. of page(s) :
Instructions : **Attempt every question**

SECTION A

Q. No.	Question	Marks	CO
1	What is the description for syntax errors?	4	CO2
2	Describe the difference between = and = = symbols in C programming?	4	CO1
3	Explain the loops in C	4	CO2
4	What are reserved words with a programming language?	4	CO1
5	What is the difference between ++a and a++?	4	CO1
	SECTION B		
6	Write c program for Fibonacci series.	10	CO2
7	Define: I. Array II. Pointer III. Function IV. Header file	10	CO1
8	Write a program to find the largest and smallest number among the three user entered input numbers. OR Write a program to check whether an alphabet is vowel or consonant	10	CO3

9	What will the output of the following code.
	I.
	`#include <stdio.h>`
	`int main()`
	`{`
	` int a = -10, b = 20;`
	` if (a > 0 && b < 0)`
	`    a++;`
	` else if (a < 0 && b < 0)`
	`    a--;`
		10	CO1

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        else if (a < 0 && b > 0)
            b--;
         else
             b--;
       printf("%d\n", a + b);
       return 0;
       }


  II.

#include <stdio.h>
int main()
{
   int x;
   x = 10;

   if (x > 10)
     x - = 10;
   else if (x >= 0)
     x + = 00;
   else if (x)
     x + = 10;
   else
     x - = 10;
   printf(" %d ",x);
   return 0;
 }
```

	SECTION-C		
10	Write a program for basic mathematical operations (addition, subtraction, multiplication, and division) using function.	**20**	**CO1**
11	Write a program to search an element in an array. **OR** Write a program to print the following pattern: ```* * * * * * * * * * * * * * *```	**20**	**CO3**