Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2019

Course: Introduction to Programming

Program: BBA (AIS) Course code: DSIT 2006 Time: 03 Hours Max. Marks: 100

Semester: III

Instructions:

SECTION A

		Marks	CO
Q 1	Select the most appropriate answer.	2 X 10=20	CO ₁
	i. How many times "IndiaBIX" is get printed?		
	#include <stdio.h></stdio.h>		
	int main()		
	int x;		
	for(x=-1; x<=10; x++)		
	{		
	if(x < 5)		
	continue; else		
	break;		
	printf("IndiaBIX");		
	} }		
	return 0;		
	}		
	A. Infinite times		
	B. 11 times		
	C. 0 times		
	D. times		
	ii. Which of the following is not logical operator?		
	A. &		
	В. &&		
	С.		
	D. !		
	iii. Which of the following statements should be used to obtain a remainder after dividing 3.14 by 2.1 ?		

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A. rem = 3.14 \% 2.1;
        B. rem = modf(3.14, 2.1);
        C. rem = fmod(3.14, 2.1);
        D. Remainder cannot be obtain in floating point division.
   iv.
           Which of the following special symbol allowed in a variable name?
        A. * (asterisk)
        B. | (pipeline)
        C. - (hyphen)
        D. _ (underscore)
           By default a real number is treated as a
   v.
        A. float
        B. double
        C. long double
        D. far double
           The keyword used to transfer control from a function back to the calling function
   vi.
          is
       A switch
       B goto
       C go back
       D return
           How many times the program will print "IndiaBIX"?
   vii.
#include<stdio.h>
int main()
  printf("IndiaBIX");
  main();
  return 0;
         A. Infinite times
         B. 32767 times
         C. 65535 times
```

	D. Till stack overflows		
	viii. To print out a and b given below, which of the following printf() statement will you use? #include <stdio.h></stdio.h>		
	float a=3.14; double b=3.14;		
	A. printf("%f %lf", a, b);		
	B. printf("%Lf %f", a, b);		
	C. printf("%Lf %Lf", a, b);		
	D. printf("%f %Lf", a, b);		
	ix. To scan a and b given below, which of the following scanf() statement will you use?		
	#include <stdio.h> float a; double b;</stdio.h>		
	A scanf("%f %f", &a, &b);		
	B scanf("%Lf %Lf", &a, &b);		
	C scanf("%f %Lf", &a, &b);		
	D scanf("%f %lf", &a, &b);		
	x. Input/output function prototypes and macros are defined in which header file?		
	A. conio.h		
	B. stdlib.h		
	C. stdio.h		
	D. dos.h		
	SECTION B		
Q	Attempt any six questions	5 X 6=30	
2.	What are different types of arithmetic operators.	5	CO ₂
3.	Explain the use of printf and scanf function with example.	5	CO ₃
4.	Write a programs to find a factorial of a number using functions.	5	CO ₂

5.	Differentiate between array and variable.	5	CO ₃
6.	. Write a C Program to Compute Quotient and Remainder.	5	CO ₃
7	Differentiate between logical and relational operators.	5	CO ₁
8.	Write a C program to check whether a number is positive or negative.	5	CO ₂
9.	Write a C Program to calculate average of three numbers using function.	5	CO ₂
	SECTION-C		
Q	Attempt any three questions :	10 X 3 =30	
9.	Write a program in C to print factorial of a number.		CO ₃
10.	Why functions () in required in C, explain its use with suitable example.		CO ₂
11	Write the output of the following program and explain the execution of each line of program. /* Sending and receiving values between functions */ main() { int a, b, c, sum; printf ("\nEnter any three numbers "); scanf ("%d %d %d", &a, &b, &c); sum = calsum (a, b, c); printf ("\nSum = %d", sum); } calsum (x, y, z) int x, y, z; { int d; d = x + y + z; return (d); }		CO ₄
12.	Read the program carefully and search the errors if any and write the correct program after removal of errors :		CO ₃

	<pre>if ((per >= 40) && (per < 50)) print ("Third division"); if (per < 40) printf ("Fail") }</pre>		
SECTION-D			
Q	Answer the Question	20	
14.	Write a program to determine whether a number is prime or not. A prime number is one, which is divisible only by 1 or itself.		CO ₄