

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2021

Course: Programming for Analytics

Program: BBA (Analytics and Big Data)

Course code: DSBA 3002

Semester: V

Time: 03 hrs.

Max. Marks: 100

SECTION A

1. Each Question will carry 2 Marks

2. Instruction: Select/Write the correct answer(s) /

S. No.	Question	CO
Q1	<p>1. How many times "IndiaBIX" is get printed?</p> <pre>#include<stdio.h> int main() { int x; for(x=-1; x<=10; x++) { if(x < 5) continue; else break; printf("IndiaBIX"); } return 0; }</pre> <p>A. Infinite times</p> <p>B. 11 times</p> <p>C. 0 times</p> <p>D. 10 times</p> <p>2. Which of the following is not logical operator?</p> <p>A. &</p> <p>B. &&</p> <p>C. </p> <p>D. !</p>	CO1

3. Which of the following statements should be used to obtain a remainder after dividing 3.14 by 2.1 ?

- 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.

4. Which of the following special symbol allowed in a variable name?

- A. * (asterisk)
- B. | (pipeline)
- C. - (hyphen)
- D. _ (underscore)

5. By default a real number is treated as a

- A. float
- B. double
- C. long double
- D. far double

6. The keyword used to transfer control from a function back to the calling function is

- A. switch
- B. goto
- C. go back
- D. return

7. How many times the program will print "IndiaBIX" ?

```
#include<stdio.h>
```

```
int main()
{
    printf("IndiaBIX");
    main();
    return 0;
}
```

- A. Infinite times
- B. 32767 times
- C. 65535 times

D. Till stack overflows

8. To print out a and b given below, which of the following printf() statement will you use?

#include<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);

9. To scan a and b given below, which of the following scanf() statement will you use?

#include<stdio.h>

```
float a;  
double b;
```

- A. scanf("%f %f", &a, &b);
- B. scanf("%Lf %Lf", &a, &b);
- C. scanf("%f %Lf", &a, &b);
- D. scanf("%f %lf", &a, &b);

10. 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

1. Each question will carry 5 marks

2. Instruction: (Scan and upload)

Q1.	What are different types of arithmetic operators?	CO2
Q2.	Write a C program to check whether a number is positive or negative.	CO2
Q3.	Differentiate between break and continue statement with example	CO2

Q4.	Write a C Program to calculate the average of three numbers.	CO2
Section C		
1. Each Question carries 10 Marks.		
2. Instruction: (Scan and upload)		
Q1	Describe different types of decision-making statements with examples.	CO2
Q2	Differentiate between logical and relational operators with the help of examples.	CO2
Q3	Describe different types of loops with examples.	CO2
Section D		
1. Each Question carries 15 Marks.		
2. Instruction: (Scan and upload)		
Q1.	Write three programs to print the table of 8 using the three different types of loops.	CO3
Q2.	A) Write a program to convert any digit from 1 to ten into a word using the switch statement. B) Considering a real-life example, describe the process of the nested If- else statement. Finally, convert the process into a C program.	CO3