

School of Basic and Applied Sciences

Biological Science
ETE - Jun 2024

Time : 3 Hours

Marks : 100

Sem IV - E1UA421B - Programming Languages

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

1. Define pointer. give the advantages and disadvantages of pointer data type. K1 CO2 (5)
2. Explain how to declare and initialize structure variable. K2 CO2 (5)
3. Define pseudocode. Write a pseudocode to find the sum and average of given three numbers. K1 CO1 (5)
4. Discuss array of structure with an example. K2 CO2 (10)
5. Discuss about the selection statements with suitable example. Write a program to print the Fibonacci series. K3 CO3 (10)
6. What is a user defined exception. Write down the scenario where we require user defined exceptions. K4 CO3 (10)
- 7) Write a C program to search an element using linear and binary techniques. K3 CO2 (10)

OR

Explain the concept of polymorphism by an example in C++.

K3 CO3 (10)

8. Discuss about the following operators in C language with example. K3 CO4 (15)
 1. Bitwise operators
 2. Increment and decrement operators
 3. Logical operators

9. Briefly Focused on the following terms: a) Break b) go to c) Continue d) label. K4 CO4 (15)

- 10) Deduce a C program to swap the two variables without using third variables. Also write an algorithm for it. K4 CO5 (15)

OR

Distinguish and explain the do and do-while loop. Write separate program for each as an example. K4 CO5 (15)