School of Computing Science and Engineering

Bachelor of Computer Applications
Semester End Examination - Jun 2024

Duration : 180 Minutes
Max Marks : 100

Sem IV - E1UA402C - Java Programming

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1) "Java is platform independent, but C++ is platform independent"- Do you support the statement? Justify your answer — K1(2)

2) What is the purpose of wait() method in a thread. How it differs from sleep() — K2(4)

3) Write a Java Program to find the frequency of each element of an array — K2(6)

4) Create a class Student (name, roll_no, marks) with one method show() and initialize instance variables using all the ways: reference, method and constructor. — K3(9)

5) Write a program using AWT components to add two numbers — K3(9)

6) Write a Java program to print even and odd number series using two threads — K5(10)

7) Explicate the hierarchy of different IO classes in Java. Write a java program to create a file and write "welcome to java" in a file using file writer class — K4(12)

8) What do you mean by method overloading? It satisfy which object oriented property? Show a program which will write separate methods for adding i)two integers, ii)three integers and iii)two floats and they will be called from main method. — K5(15)

9) Create 2 packages P1 & P2 and create classes Student and BCA in P1 and P2 respectively. Check the accessibility of methods of the package p1 into package p2 using all the access modifiers. — K5(15)

10) Design a class to represent a bank account. Include the following member:
Data Member * Name of depositor * Account number * Type of account * Balance amount in the account
Methods * To assign initial values * To deposit an amount * To withdraw an amount after checking balance * To display the name and method — K6(18)