PC1168

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T.Y.B.B.A. (C.A.)

CA 503 : CORE JAVA

(2019 Pattern) (Semester-V)

Time : 2 ½Hours]   *[Max. Marks : 70*

Instructions to the candidates:

1) *All questions are compulsory.*
2) *Figures to the right indicate full marks.*
3) *Neat diagrams must be drawn wherever necessary.*

Q1) Attempt any Eight of the following: [Out of Ten]   **[8×2=16]**

    a)   Describe any two features of Java programming Language.

    b)   Define Collection.

    c)   Define Static Keyword.

    d)   What is difference between Array and Array List?

    e)   Write advantages of Inheritance.

    f)   What is use of New operator?

    g)   How to create and access package in java.

    h)   What is difference between paint() and repaint().

    i)   What is Finalize() Method?

    j)   Write any two advantages of Inner Class.

Q2) Attempt any four of the following: [Out of Five]   **[4×4=16]**

    a)   Write a Java program using AWT to display details of Customer (cust_id, cust_name, cust_addr) from user and display it on the next frame.

    b)   Differentiate between interface and abstract class.

    c)   Write a java program to count number of Lines, words and characters from a given file.

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d) What is exception? Explain its keyword with example.

e) Why the main() method is public static? Can we overload it? Can we run java class without main() method?

Q3) Attempt any four of the following: [Out of Five]   **[4×4=16]**

a) Explain java.util Package.

b) Write a package MCA which has one class student. Accept student details through parameterized constructor. Write display() method to display details. Create a main class which will use package and calculate total marks and percentage.

c) How Multiple Inheritance is achieved in java? Explain.

d) What is 'this' keyword? Explain with suitable example.

e) What is recursion in Java? Write a Java Program to find factorial of a given number using recursion.

Q4) Attempt any four of the following: [Out of Five]   **[4×4=16]**

a) Explain method overloading and method overriding in detail.

b) Write a Java program to design email registration form. (Use swing components)

c) What is Layout Manager? Explain any one in detail.

d) How to create String in java? Explain any four functions of String.

e) Write a java program to accept 'n' integers from the user & store them in an ArrayList Collection. Display the elements of ArrayList collection in reverse order.

Q5) Write short note on any two: [Out of Three]   **[2×3=6]**

a) Vector

b) Types of constructor.

c) Anonymous class.

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