[6144]-503
T.Y.B.B.A. (C.A.)
CA 503 : CORE JAVA
(2019 Pattern) (Semester -V)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

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

Q1) Answer any Eight: [8×2=16]

a) What is a java program structure?

b) Define this Keyword.

c) Explain in detail the data types in java?

d) What is an Interface?

e) What is the use of Reader and Writer class?

f) Which method is used to specify containers layout with syntax.

g) What is the default layout for Frame and Panel?

h) Explain Modifiers and Access Controls used in java.

i) List and explain any 2 in-built exceptions.

j) Explain the purpose of getContentPane().

Q2) Attempt any four.   [4×4=16]

a) Explain in detail the features of Java.

b) What are the rules for method overloading and method overriding? Explain it with example.

c) Differentiate between interface and abstract class.

d) Explain the concept of exception and exception handling.

e) What are the different types of streams? Explain in details.

Q3) Attempt any four. [4×4=16]

a) Write a java program to display alternate character from a given string.

b) Write a Java program to calculate area of Circle, Triangle & Rectangle. (Use Method Overloading).

c) Write a java program to search given name into the array, if it is found then display its index otherwise display appropriate message.

d) Write a java program to display ASCII values of the characters from a file.

e) Write a java program to display multiplication table of a given number into the List box by clicking on button.

Q4) Attempt any four : [4×4=16]

a) What is collection? Explain Collection framework in details.

b) Difference between Swing and AWT.

c) Create a package named Series having three different classes to print series:

   i) Fibonacci series

   ii) Cube of numbers

   iii) Square of numbers

   Write a java program to generate 'n' terms of the above series

d) Write a 'java' program to check whether given number is Armstrong or not. (Use static keyword)

e) Write a 'java' program to copy only non-numeric data from one file to another file.

Q5) Write short note any two : [2×3=6]

a) Define new operator.

b) Define term finalize () method.

c) Define package with all the steps for package creation.

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