

Total No. of Questions : 5]

SEAT No. :

PD-1449

[Total No. of Pages : 2

**[6441]-703**  
**T.Y. B.B.A (CA)**  
**CA - 503 : CORE JAVA**  
**(2019 Pattern) (Semester - V)**

*Time : 2 ½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) Neat diagrams must be drawn wherever necessary.*
- 2) Figures to the right indicate full marks.*

**Q1) Attempt any Eight :**

**[8 × 2 = 16]**

- a) List the three different uses of final keyword.
- b) What is access specifiers? List them.
- c) What is collection framework?
- d) Can we use super ( ) and this ( ) within same constructor?
- e) What is instance variable?
- f) Define Class and Object with one example.
- g) Can you save a Java source file by name than class name? Justify.
- h) When buffered reader is used?
- i) What are differences between String and StringBuffer class?
- j) "Import statement is not essential in Java." True / False. Justify.

**Q2) Attempt any four:**

**[4 × 4 = 16]**

- a) What is inheritance? Explain with suitable example.
- b) What is Applet? Explain life cycle of Applet?
- c) How a Java program is structured? Explain data types.
- d) Explain arrays in Java. How does it differ from C++.
- e) What is difference between constructor and method? Explain types of constructors.

**P.T.O.**

**Q3) Attempt any four:**

**[4 × 4 = 16]**

- a) Write a Java program to design email registration form. (Use swing components)
- b) Create a package vehicle which will have two classes. Two-wheeler and four-wheeler. Two-wheeler with method display (cc,price), four-wheeler with method display (reg-no,reg-year).
- c) Write a java program using Applet to create login form.
- d) Write a Java program to display all the perfect numbers between 1 to n
- e) Create a class Teachers (Tid, Tname Designation, Salary, Subject). Write a java program to accept 'n' teachers and display who teach Java subject (Use Array of object)

**Q4) Attempt any four :**

**[4 × 4 = 16]**

- a) What is package? Write down all the steps for package creation.
- b) What is constructor? What are the types of constructors? Explain with one example.
- c) Explain abstract class in detail with suitable example.
- d) Write applet program in java for designing car.
- e) Write a Java program to copy the contents of one file into another file, while copying change the case of alphabets and replace all the digits by '\$' in target file [Use command line argument].

**Q5) Write short note any two:**

**[2 × 3 = 6]**

- a) Describe interface.
- b) Explain inner class in java with example.
- c) File handing.

