

Total No. of Questions : 5]

SEAT No. :

**P2141**

[Total No. of Pages : 2

**[5803]-503**

**B.B.A. (CA)**

**CA - 503 : CORE JAVA**

**(2019 Pattern) (Semseter - V)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

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

**Q1)** Attempt any Eight :

**[8 × 2 = 16]**

- a) What is JDK? How to build and run java program?
- b) Explain Static keyword.
- c) What is use of classpath?
- d) What is collection? Explain collection frame work in details.
- e) What is the use of Reader and Writer class?
- f) What is the use of layout manager?
- g) What is difference between paint ( ) and repaint ( ).
- h) Explain Access modifiers used in Java.
- i) Define keyword throw.
- j) Define polymorphism.

**Q2)** Attempt any four :

**[4 × 4 = 16]**

- a) Explain features of Java.
- b) What is difference between constructor and method? Explain types of constructors.
- c) Differentiate between interface and abstract class.
- d) Explain the concept of exception and exception handling.
- e) Explain try and Catch with example.

***P.T.O.***

**Q3)** Attempt any four : **[4 × 4 = 16]**

- a) Write a Java program to display all the perfect numbers between 1 to n.
- b) Write a Java program to calculate area of circle, Triangle and Rectangle (Use Method over loading)
- c) Write a java program to accept n integers from the user and store them in on ArrayList collection. Display elements in reverse order.
- d) Write a Java program to count number of digits, spaces and characters from a file.
- e) Create an applet that display x and y position of the cursor movement using mouse and keyboard. (Use appropriate listener)

**Q4)** Attempt any four : **[4 × 4 = 16]**

- a) How a Java program is structured? Explain data types.
- b) What is applet? Explain its types.
- c) Write a java program to count number of Lines, words and characters from a given file.
- d) Write a Java program to design email registration form. (Use swing components)
- e) Create a class Teacher (Tid, Tname, Designation, Salary, Subject). Write a java program to accept 'n' teachers and display who teach Java subject (Use Array of object)

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

- a) Define object.
- b) Define term finally block.
- c) What is package? Write down all the steps for package creation.

