

- All questions are compulsory with internal options.
- Figures to the right indicate full marks.

- Q. 1 Answer the following: (Attempt any four) (20)
- Distinguish between C++ and Java.
 - Explain JDK, JRE and JVM with a suitable diagram.
 - Explain OOP concepts in detail.
 - Write a short note on java data types.
 - What are constants in java? Explain its types with suitable example.
 - Write a short note on Type Casting in java.
 - Write a program to implement the concept of shorthand operators in java.
 - Write java code for the following output.

```
1
22
333
4444
55555
```
- Q. 2 Answer the following: (Attempt any four) (20)
- Explain the concept of two-dimensional arrays in java.
 - Explain in detail the concept used to implement multiple-inheritance in java with a suitable example.
 - What are java threads? Explain life cycle of a thread.
 - Distinguish between errors and exceptions.
 - What is the use of packages in java? Explain the process of creation of packages.
 - Write a java program that illustrates the concept of implementing the runnable interface.
 - Write short note on :
 (i) Stopping and blocking a thread (ii) Thread priority
 - Explain exceptions in java. Give types of exceptions along with their causes.
- Q. 3 Answer the following: (Attempt any four) (20)
- What are applets? Explain in detail applet life cycle.
 - Explain the concept of window fundamentals in AWT.
 - Write a java program to implement any five AWT controls.
 - Distinguish between application program and applet program.
 - Explain Graphics class. Give example implementing any 4 methods of Graphics class.
 - Write applet code for the following:

 - Explain paint() and repaint() methods of an applet.
 - Write applet code to take input from the user to add 2 numbers and produce its result.
- Q. 4 Answer the following: (Attempt any three) (15)
- What are java tokens? Explain any four in detail.
 - Explain decision making and looping.
 - Explain the following string methods:
 (i) toLowerCase() (ii) compareTo() (iii) concat() (iv) equalsIgnoreCase() (v) CharAt(n)
 - What are wrapper classes in java? Explain the concept of autoboxing and unboxing in java.
 - Distinguish between Swing and AWT.
 - Explain the concept of line graphs and control loops in applets.

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