

2 0 2 2

INFORMATION TECHNOLOGY

Paper : INT-VC-4026

(Programming in JAVA)

Full Marks : 60

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer the following questions : 1×7=7

- (a) What is 'This' keyword?
- (b) What is byte code?
- (c) Name the different access specifiers in Java.
- (d) What is the output of the following programme code?

```
int Integer = 24;  
char String = 'T';  
System.out.print (Integer);  
System.out.print (String);
```
- (e) When is an array passed to a method, what does the method receive?

(2)

- (f) In which package toString() method is defined?
- (g) What is the implicit return type of constructor?

2. Answer any *four* of the following questions :

2×4=8

- (a) What is abstract class? Give an example.
- (b) What is constructor and why is it used?
- (c) What are JDK and JRE?
- (d) What is array? Give example.
- (e) What is object in Java? Write the characteristics of an object.
- (f) What is life cycle of a thread?

3. Answer any *three* of the following questions :

5×3=15

- (a) What is inheritance? Explain the different types of inheritance.
- (b) What is applet? Describe the life cycle of applet.
- (c) Differentiate between process and thread.

(3)

- (d) Explain method overriding with an example.
- (e) Write a program to create and display an applet.

4. Answer any *three* of the following questions :

10×3=30

- (a) What is threading? Describe the concept of multithreading with an example.
- (b) Write a Java program to read and display the array elements in sorted order.
- (c) Define string. Explain different string declarations. Write a Java Program to check the given string is palindrome or not.
- (d) Write the steps for establishing JDBC connection with a database.
- (e) How are packages defined in Java? How to access and import package in Java? Explain with example.
