

2. Answer the following questions : 2×5=10
Total number of printed pages-3

52 (4) ITB-HC-4016

2024

PROGRAMMING IN JAVA

Paper : ITB-HC-4016

Full Marks : 60

Time : Three hours

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

1. Objective type Questions : 1×5=5
- (a) What is JVM ?
 - (b) Define Package.
 - (c) Define Applete.
 - (d) A class can implement ____ number of interfaces.
 - (e) A method without the body is known as ____ method.

Contd.

2. Answer the following questions : $2 \times 5 = 10$

- (a) Define class, method and object.
- (b) Why Java is called platform independent?
- (c) Define inheritance and its types.
- (d) What do you mean by method overloading?
- (e) Write the meaning of the following Java Code — public static void main (string, args[])

3. Answer the following questions : (**any nine**)
 $5 \times 9 = 45$

- (a) What is Byte Code? Interpret the different status of Java Program Execution.
- (b) What is an operator? Explain types of operators in Java with examples.
- (c) Write the differences between String and String Buffer class.
- (d) Create a Java program to display "Hello-java" using class, object and method.

(e) Explain about Thread life cycle with diagram.

(f) Write a Java program to find the factorial value of the given number using user defined package concept.

(g) What is constructor? Write a Java program to find the area of circle using constructor.

(h) Explain about Try catch, statements with example.

(i) Write the steps to open a connection to database using ODBC.

(j) What is interface? List the rules to create an interface in Java with example.

(k) Write a Java program within a given string is palindrome or not.

(l) Write a Java program to implement single inheritance.