Total Pages: 03

BCA/M-23

1881

PROGRAMMING IN CORE JAVA BCA-366

Time: Three Hours]

[Maximum Marks: 80

Attempt Five questions in all. Q. No. 1 is compulsory.

Attempt four more questions, selecting exactly one question from each Unit.

Compulsory Question

- 1. (a) State the purpose of JVM.
 - (b) Name the various data types in Java.
 - (c) How can you create an object from a class in Java?
 - (d) What is meant by an abstract class?
 - (e) State the purpose of super keyword.
 - (f) What is CLASSPATH setting for packages?
 - (g) What are the differences between checked and unchecked exceptions?
 - (h) Enlist the various layout managers in Java.

8×2=16

Unit I

Explain various control structures in Java using suitable examples.

(2-06/12) L-1881

P.T.O.

3.	(a)	How is Java different from procedural and object-oriented languages? Explain	
		object-oriented languages? Explain.	other
	(p)	Explain the following terms w.r.t. Java:	8

(i) Keywords

(ii) Literals

(iii) Command line arguments.

Unit II

- 4. Write a program in Java to create a class named as matrix. This program should be able to multiply and add two matrices.
- 5. Write a program in Java to perform the following operations on strings:
 - (i) finding string length
 - (ii) compare two strings
 - (iii) concatenate two strings
 - (iv) copy a string.

Unit III

- 6. What do you understand by inheritance? Explain various types of inheritances using suitable examples in Java in detail.
- 7. Explain any four pre-defined packages along with their classes and methods in detail using suitable examples.

16

Unit IV

- 8. Explain the following keywords:
 - (i) try

(ii) catch

(iii) throw

(iv) throws

(v) finally.

Also write a program using all of the above keywords.

16

9. What is an applet life-cycle? Create an applet that receives a number as input from a text box and find the sum of the digits of the input number and displays it.

16