2018

BCA 5th Semester Examination OOPS USING JAVA

PAPER-3101

Full Marks: 70

Time: 3 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer Q. No. 1 and any five from the rest.

1. Answer any five questions:

5×2

- (a) What is JVM?
- (b) What is the use of final keyword in Java?
- (c) What is an applet?
- (d) What is a package in Java?

(Turn Over)

- (e) What is an event in Java?
- (f) "Java is Platform Independent." Explain it.
- (g) Explain the main features of OOPs.
- 2. (a) What are the feature of Java language?
 - (b) What do you mean by command line argument?
 - (c) Why super keyword is used? Explain the use of static keyword. 5+3+(2+2)
- (a) Explain different types of loops used in Java with suitable example.
 - (b) List and explain primitive data types used in Java.
 - (c) Write down the properties of a constructor in Java.

6+3+3

- 4. (a) What are the difference between abstract class and interface?
 - (b) What are the difference between method overloading and method overriding?
 - (c) How a class and object are related? 4+4+4

- 5. (a) What is polymorphism? Differentiate between compiletime and runtime polymorphism.
 - (b) What is the role of garbage collection?
 - (c) Explain step of create packages. (2+4)+3+3
- 6. (a) What are error and exception in Java? How to use throw and throws keyword in exception handling?
 - (b) Discuss how try and catch is used in exception handling.
 - (c) With an example explain the use of finally block in exception handling. (2+4)+3+3
- (a) Explain about the important functions used to write an applet in Java.
 - (b) Discuss about different types of Streams used in Java.
 - (c) What is AWT? Discuss about some AWT controls used in Java. 5+3+(2+2)

8. Write short notes on any three:

3×4

- (a) Byte code;
- (b) GUI;
- (c) Constructor chaining;
- (d) Layout Manager;
- (e) Event Listener.