26/5/19

1955

BCA / M-19

PROGRAMMING IN CORE JAVA

Paper–BCA-366

Time allowed : 3 hours]   *[Maximum marks : 80*

*Note : Attempt **five** questions in all. **Question No. 1 is compulsory.** Attempt **four** more questions selecting **one** question from each unit.*

1. Answer the following questions in brief :   8×2=16

   (i) Explain the syntax and use of for ...... each loop in JAVA.

   (ii) What is java virtual machine ? Explain its role.

   (iii) What is a string buffer class and how does it differs from string class ?

   (iv) What is inner class ? Give an example.

   (v) What is the role of 'Super' keyword in JAVA ?

   (vi) What is abstract class ? How do you create it in JAVA ?

   (vii) What is the use of finalize method in java ? Explain.

   (viii) Explain the use of paint graphics function used in Applet ?

Unit–I

2. (a) Discuss the historical evolution of JAVA programming. 8

   (b) What are primitive data types available in JAVA ? Explain each with suitable example. Also discuss the usage of wrapper classes. 8

3. (a) How can you do formatted input in JAVA ? Explain with
   suitable examples. 8

   (b) Distinguish between switch and nested if statements in JAVA
   by giving an example. 8

Unit–II

4. (a) How do you create class and object in JAVA ? Explain with
   an example. 8

   (b) What is an array ? How arrays are declared and initialized?
   Explain with examples. 8

5. (a) How do you declare and initialize a string in java and also
   explain any four string handling functions with suitable
   examples. 8

   (b) Differentiate between overloading and overriding of methods
   in JAVA with examples. 8

Unit–III

6. (a) What is multiple inheritance ? How do you implement
   multiple inheritance in JAVA ? Explain with an example. 8

   (b) What is interface ? Differentiate between interface and
   abstract class. 8

7. What do you mean by packages in JAVA ? Explain with example
   how packages can be created, imported and used. Also discuss
   any three in-built packages in JAVA. 16

Unit–IV

8. (a) What are different types of exceptions in JAVA ? Explain the use of throw and throws keywords by taking an example.

8

   (b) How can you catch more than one exception ? Explain with an example.

8

9. (a) What is an applet ? How can you pass parameters to an applet ? Explain with an example.

8

   (b) What are the different layout managers provided by AWT in JAVA ? Explain any two layouts with suitable examples.

8