

4/05/2019

Roll No.
Printed Pages : 3

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BCA / M-19
PROGRAMMING IN CORE JAVA
Paper-BCA-366

Time allowed : 3 hours]

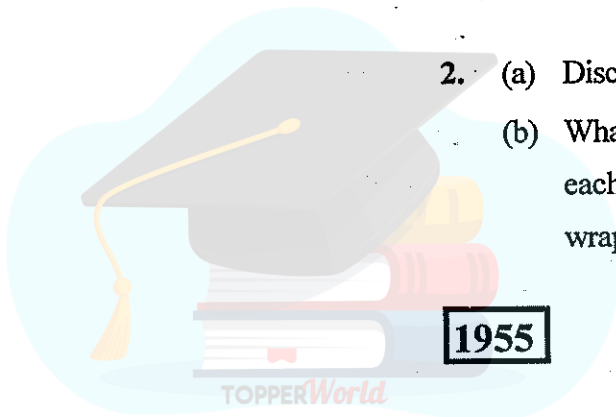
[Maximum marks : 80

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



[Turn over

(2)

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

(3)

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

