

(83 & A-39)

SC

Exam No. _____

No. of printed pages: 2

SARDAR PATEL UNIVERSITY
BCA Semester – IV (CBCS) Examination (April-2018)
US04BCA02 Object Oriented Programming through Java

Date of Exam: 6/4/18, Friday
Time: 2 pm to 5 pm

Total Marks: 70

Q. 1 Select most appropriate single answer:

[10]

- (1) Java compiler translates source code into _____.
(A) machine code (B) byte code
(C) assembly code (D) executable code
- (2) _____ operator is used to construct conditional expression.
(A) Dot (.) (B) instanceof
(C) Ternary (?:) (D) None of these
- (3) Which statement is use to skip the loop and continue with the next iteration?
(A) break (B) continue
(C) skip (D) next
- (4) We cannot create a subclass of _____ class.
(A) abstract (B) final
(C) static (D) public
- (5) _____ variables and methods can be accessed without using objects.
(A) private (B) protected
(C) static (D) final
- (6) _____ is caused by bad array index.
(A) ArithmeticException (B) IOException
(C) ArrayIndexOutOfBoundsException (D) NullPointerException
- (7) Character streams can be used to read and write _____ Unicode characters.
(A) 4-bit (B) 8-bit
(C) 16-bit (D) 32-bit
- (8) Which of the following block is always executed irrespective of whether an exception has occurred.
(A) try (B) catch
(C) finally (D) all of these
- (9) JDBC application must import _____ package.
(A) java.io (B) java.sql
(C) java.applet (D) java.util
- (10) If we implement ActionListener in our program, then we must override _____ method.
(A) ActionPerformed (B) actionPerformed
(C) ActionEvent (D) addActionListener

(1)

(P.T.O.)

Q. 2 Answer ANY TEN of the following questions briefly:

[20]

- (1) Java is platform-independent and portable. - Justify
- (2) Write rules for naming variables.
- (3) Write syntax of do...while loop.
- (4) Differentiate between class and interface.
- (5) Define method overriding.
- (6) List the conditions for using super() in a method.
- (7) Discuss syntax and use of the following String methods with example: length(), charAt()
- (8) What is package? What are the benefits of package?
- (9) List any four java API packages.
- (10) What is Event Delegation?
- (11) List any four methods of MouseListener interface.
- (12) List life-cycle methods of an applet.

Q. 3 Answer the following questions:

[10]

- (A) What is Java? Explain features of Java. **[06]**
- (B) Explain the following data types available in Java: int, float, char, boolean **[04]**

OR

- (A) Explain the structure of Java program. **[06]**
- (B) Describe the Java environment. **[04]**

Q. 4 Answer the following questions:

[10]

- (A) Define class. Explain structure of a class with example. **[05]**
- (B) Explain method overloading and overriding with suitable example. **[05]**

OR

- (A) Explain super and final keyword with example. **[05]**
- (B) What is a constructor? What are its special properties? **[05]**

Q. 5 Answer the following questions:

[10]

- (A) Describe the try and catch statements in detail. **[05]**
- (B) Explain Reader stream class and Writer stream class. **[05]**

OR

- (A) Describe concept of stream. **[05]**
- (B) Write a short note on Character Stream classes. **[05]**

Q. 6 Answer the following question:

[10]

What is an applet? How it differs from Java applications? Discuss life-cycle methods of applet in detail.

OR

Write short note on following components: Choice, List, Button, Checkbox

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