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A50]

SARDAR PATEL UNIVERSITY

S.Y.B.C.A. (Sem- 4)

US04CBCA02: Object Oriented Programming Through Java

Date: 06-04-2016

Time: 10.30 am – 1.30 pm

Marks: 70

**Q-1** Select the correct option from the following questions. (10)

- 1) \_\_\_\_\_ tool helps us find errors in programs.  
(A) jhelp (B) javah  
(C) javap (D) jdb
- 2) Which statement is use to terminate loop early?  
(A) terminate (B) Continue  
(C) skip (D) break
- 3) Java compiler produces an intermediate code known as \_\_\_\_\_.  
(A) Bit Code (B) Machine Code  
(C) Byte Code (D) User Code
- 4) We cannot create a subclass of \_\_\_\_\_ class.  
(A) Public (B) Static  
(C) Final (D) Abstract
- 5) What keyword is used in Java to define a constant?  
(A) static (B) final  
(C) abstract (D) private
- 6) \_\_\_\_\_ method is used to find the nth no. of character of given string s1.  
(A) s1.index(n) (B) s1.substring(n)  
(C) s1.length() (D) s1.charAt(n)
- 7) "Converting invalid string to a number" is \_\_\_\_\_ type of error.  
(A) Run-time (B) Compile-time  
(C) Exception (D) Logical
- 8) If we implements ActionListener in our program, then we must override \_\_\_\_\_ method.  
(A) actionPerformed() (B) ActionPerformed( )  
(C) actionPerfromed( ) (D) actionPerformed( )
- 9) JDBC application must import \_\_\_\_\_ package.  
(A) io (B) sql  
(C) event (D) util
- 10) The \_\_\_\_\_ parameter is used to specify the applet class name.  
(A) classname (B) code  
(C) name (D) codebase

**Q-2** Do as directed. (ATTEMPT ANY TEN) (20)

- 1) Java is platform-independent and portable. - Justify.
- 2) Define break and continue statements.
- 3) List the primitive and non-primitive data types used in Java.

- 4) What is the meaning of the static keyword?
- 5) Write various types of inheritance available in Java.
- 6) Define class. How does it accomplish data hiding?
- 7) List out the different types of exception.
- 8) Give examples of the Run-time error.
- 9) List the java API packages.
- 10) Write difference between java applet program and java application program.
- 11) Explain methods (1) setBackground ( ) (2) setForeground ( ).
- 12) Explain any one driver used in JDBC.

- Q-3 A List out the operators available in Java. Explain any two in detail. (05)
- B Describe the structure of Java program by giving example. (05)

**OR**

- Q-3 A List out the Looping statements available in Java. Explain any one with example. (05)
- B Explain the features of Java. (05)

- Q-4 A Explain abstract and final keyword with example. (05)
- B Write a short note on Method Overloading and Method Overriding. (05)

**OR**

- Q-4 A Describe inheritance in Java. Explain the use of super keyword. (05)
- B Define interface. Differentiate between Classes and Interface. (05)

- Q-5 A Explain the term Exception in Java programming. Describe the syntax of try and catch block with the help of an example. (05)
- B What is package? What are the benefits of package? Explain Java API packages. (05)

**OR**

- Q-5 A Explain Reader stream classes and Writer stream classes. (05)
- B Describe any five methods of String class by giving an example. (05)

- Q-6 Write short note on following components. (10)
- 1) Checkbox 2) List 3) Button 4) TextField

**OR**

- Q-6 Explain EventListeners. Discuss all the methods of Action, Item, Key and Mouse Listener. (10)

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