

SEAT No. \_\_\_\_\_

[A-27]



No. of Printed Pages: 02

# SARDAR PATEL UNIVERSITY

B.C.A. (Semester- IV) (FOR BATCH 2011-2017)

US04CBCA02: Object Oriented Programming through JAVA

Date: 22-09-2022

Time: 12.30 pm – 02.30 pm

Marks: 70

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

- 1) Which statement is use to terminate loop early?  
(A) terminate (B) Continue  
(C) skip (D) break
- 2) The process of converting one date type to another is called\_\_\_\_\_.  
(A) Translating (B) Casting  
(C) Compiling (D) Declaring
- 3) The comparisons can be done with help of \_\_\_\_\_ operator.  
(A) Arithmetic (B) Mathematical  
(C) Relational (D) Assignment
- 4) \_\_\_\_\_ Variables and methods can be called without using the objects.  
(A) static (B) final  
(C) abstract (D) none of the above
- 5) \_\_\_\_\_ methods must be overridden in the subclass.  
(A) public (B) final  
(C) abstract (D) static
- 6) \_\_\_\_\_ is caused by bad array indexes.  
(A) ArrayStoreException (B) ArithmeticException  
(C) IOException (D) ArrayIndexOutOfBoundsException
- 7) Character streams can be used to read and write \_\_\_\_\_ Unicode characters  
(A) 2 - bit (B) 4 - bit  
(C) 8 - bit (D) 16 - bit
- 8) In itemStateChanged( ) method, we must pass object of \_\_\_\_\_ class.  
(A) ItemEvent (B) EventAction  
(C) EventItem (D) ActionEvent
- 9) The \_\_\_\_\_ parameter is used to specify the applet class name.  
(A) classname (B) codebase  
(C) code (D) name
- 10) \_\_\_\_\_ is a passive control.  
(A) TextField (B) Label  
(C) Button (D) None of these

**Q-2** Fill in the blanks/True-False. (08)

- 1) Java compiler translates source code into \_\_\_\_\_.
- 2) \_\_\_\_\_ is a special method in java that enables an object to initialize itself when it is created.
- 3) \_\_\_\_\_ package is used for creating and implementing applets

(1)

P.T.O.

- 4) JDBC application must import \_\_\_\_\_ package.
- 5) Java does not support multiple inheritance. (True/False)
- 6) implements keyword is used to inherit a class in java. (True/False)
- 7) All syntax errors are known as Logical errors. (True/False)
- 8) The paint method accepts Graphics type of argument. (True/False)

Q-3

**Short Answer Questions. (Attempt any 10 out of 12)**

(20)

- 1) Draw the Java program structure.
- 2) What is JVM (Java Virtual Machine)?
- 3) Java is platform-independent and portable. - Justify.
- 4) What are the conditions for using super() method.
- 5) Differentiate between Classes and Interface.
- 6) Define final variable and final methods.
- 7) List java API packages.
- 8) List out different types of exception.
- 9) Explain any two string methods in Java.
- 10) Write difference between java applet program and java application program.
- 11) List out methods of Mouse Listener.
- 12) List the types of drivers used in JDBC.

Q-4

**Long Answer Questions. (Attempt any 4 out of 8)**

(32)

- 1) What is Java? Explain the features of Java.
- 2) Explain the looping statements available in Java.
- 3) Define inheritance. Describe different forms of inheritance in Java with proper example.
- 4) Write note on method overloading and method overriding with example.
- 5) Describe concept of stream. Write a note on Character Stream classes.
- 6) What is exception? Explain the syntax of try block and catch block with an example.
- 7) Write short note on following components.
  - 1) Checkbox
  - 2) TextField
- 8) Explain Applet life cycle in detail.