

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

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SARDAR PATEL UNIVERSITY

M.Sc. GEOINFORMATICS (SEM-II) - NC

Examination Program December – 2020

PS02CGIN23: Java Programming

Date: 28-12-2020

Time: 10-00 to 12-00 Pm

Total Marks : 70

Q.1 Multiple choice questions:

[08]

(a)

1. The subclass constructor uses the \_\_\_\_\_ keyword to invoke the base class constructor.  
A. super                      B. final                      C. static                      D. pubic
2. \_\_\_\_\_ of applet method called once while applet execute.  
A. init()                      B. destroy()                      C. Both                      D. None
3. Which package must be import to use JDBC in java.  
A. java.awt.event.\*    B. javax.swing.\*    C. java. applet.\*    D. java.sql.\*
4. Which keyword is use for define the abstract class in java.  
A. extends                      B. super                      C. implements                      D. abstract
5. \_\_\_\_\_ is caused when a divide by 0 fails.  
A. NullPointerException                      B. ArithmeticException  
C. IOException                      D. SecurityException
6. "Use of undeclared variables" is the \_\_\_\_\_ type of error.  
A. Run-time                      B. Exception                      C. Logical                      D. Compile-time
7. The meaning of \_\_\_\_\_ is that the java compiled code(byte code) can run on all operating systems.  
A. Platform Independent                      B. Garbage Collection  
C. Open Source                      D. None
8. Which mode is use to add the more content in file.  
A. r                      B. w                      C. a                      D. none

Q.1 Do as Directed.

[16]

(b) (A) Fill In the blanks.

1. \_\_\_\_\_ is sometimes called as a lightweight sub process.
2. The FTP stands for \_\_\_\_\_
3. \_\_\_\_\_ package must import use for applet.
4. \_\_\_\_\_ keyword is used to inherit a class in java. extends

(B) TRUE/FALSE

1. Java compiler translates source code into bytecode.
2. Final keyword is use to define constant in java.
3. Same method name with different parameter is called overloading.

[1]

(P.T.O.)

4. If we implements ActionListener in our program, then we must override actionPerformed() method.

**[C] Match The following**

- |                   |   |
|-------------------|---|
| (1) Encapsulation | (a) Basic run-time entity                       |
| (2) Inheritance   | (b) can take more than one form                 |
| (3) Polymorphism  | (c) can access the properties of the base class |
| (4) Object        | (d) to bind data and method together            |

**[D] One word answer.**

1. Which keyword is use to apply interface.
2. Which statement is use to skip a loop and continue with the next iteration?
3. Which exception is caused when a conversion between string and number fails?
4. Which methods must have to write when implements MouseMotionListener?

**Q.2 Attempt any Seven out of Nine.**

**[14]**

1. Explain servlet life cycle in brief.
2. Differentiate Method Overloading and Method Overriding.
3. List out the methods of MouseListener interface.
4. What is constructor? Give an example of constructor.
5. Define class and object in java.
6. Explain try and catch in java.
7. Define SMTP and POP.
8. Differentiate stub and skeleton in RMI.
9. Define multithreading as feature of java.

Q.3 What is inheritance? Explain different types of inheritance

[08]

**OR**

Q.3 Write a java program the shows a encapsulation and polymorphism concept of java.

[08]

Q.4 Explain MouseListener and ActionListener with example.

[08]

**OR**

Q.4 What is AWT? Write an applet program that use the different component of AWT.

[08]

Q.5 What is Applet? Explain Applet Life Cycle in detail.

[08]

**OR**

Q.5 Discuss the various component of the Network and how its use in java.

[08]

Q.6 What is constructor? Explain different types of it with example.

[08]

**OR**

Q.6 Explain java mail API in detail.

[08]