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**Instructions:**

Read the question paper carefully. Write neatly and legibly. Do not over write. Pay special attention to spelling. Read the answers before submitting the answer sheet.

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**I. Choose the correct answer: -**

[3]

- Wrapping up of data and associated functions in one single unit is called \_\_\_\_.  
(a) Abstraction (b) Encapsulation (c) Inheritance (d) Polymorphism
- System.\_\_\_\_.println  
(a) OUT (b) out (c) end (d) All of the above
- The MIT App inventor window has two tabs designer mode and \_\_\_\_  
(a) Blocks (b) Companion (c) TextBox (d) None of these
- In SMTP,P stand for  
(a) Port (b) Process (c) Protocol (d) Println
- A \_\_ is a blueprint representing a group of objects that share common properties.  
(a) IDE (b) class (c) System (d) MIT
- Star,Bus and Tree are types of \_\_\_\_.  
(a) Network (b) Topology (c) wired media (d) Viruses

**II. Fill in the blanks**

[5]

- Java application are platform \_\_\_\_.
- A \_\_ is a collection of interconnected computers.
- In HTML,M stands for \_\_\_\_.
- Byte codes are always \_\_\_\_ for different platform.
- \_\_ is a network that spans within a few km or in the same building.

**III. Name the devices used for the following tasks.**

[2]

- Device used to connect two networks with same protocol.
- Device used to amplify signals.
- Device used to connect two networks with different protocols.
- Device used to change the data from digital signal to analog and analog signal to digital.

IV. Write out for the given java program:-

[2]

```
class Sample{
    public void MyExam( )
    {
        System.out.print("This is my first java program");
        System.out.print("for my exam");
    }
}
```

V. Expand the following

[3]

- |          |        |          |
|----------|--------|----------|
| 1. JVM   | 2. FTP | 3. PPP   |
| 4. RJ-45 | 5. URL | 6. Modem |

VI. Identify the errors and write the rectified java program. [2]

```
Class HelloWorld{
    Public void Sayhello
    {
        System.out.println(hello.world);
    }
}
```

VII. Write java program for the following:-

[4]

1. Program for multiplication of two numbers.
2. Program to find perimeter of a triangle with sides measuring 10 cm, 14 cm and 15 cm.

VIII. Define the following.

[2]

1. Text Box
2. Abstraction

IX. Differentiate between the following: -

[4]

1. Bridge & Gateway
2. Base class & Derived class

X. Answer the following questions (any four)

[8]

1. What do you understand by JVM?
2. What is meant by an app? What are its uses.
3. What is meant by terms Hackers and Crackers?
4. What is VOIP?
5. What is the difference between an object and a class.

XI. Practical

[15]