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# B.Tech. || CSE ||5ᵗʰ Sem'
# Java Programming
## Subject Code: BTCS-511A (RP)
## Paper ID: M)18
### (2015 batch)

Time allowed: 3 Hrs                                    Max.Marks:60

Important Instructions:

- All questions are compulsory
- Assume any missing data

## PART A (10×2marks)

Q. 1.  Short-Answer Questions:

(a) What are static data types? Why are they required?

(b) Write down the difference between do- while and while-do loop.

(c) Explain different access levels for class definition?

(d) How multiple inheritance is implemented in Java?

(e) What is Thread synchronization?

(f) Explain inter-thread communication.

(g) What are different phases of an Applet?

(h) What are advantages of Applets?

(i) Explain Socket.

(j) How Java program can store data in database?

## PART B (5×8marks)

Q. 2.  Why data types have to be declared in Java Programming? Explain different types supported by Java?                                    CO1

OR

Explain concept of loops. Write a sample java program to demonstrate use of each type of loop in java?

Q. 3.  How inheritance encourage 'resuability' in Java? Explain multiple inheritance.

OR                                    CO2

Differntiate between Function overloading and overriding, with suitable example.

Q. 4.  What is concept of multithreading? How is it implemented in Java?

OR

How priorities of thread can be controlled in Java.                                    CO3

Q. 5.  Differntiate between Java Applets and Appplications.                                    CO4

OR

What are security restrictions imposed on Java Applets? Why are they necessary?

Q. 6.  How Java programs can make a connection to a Database? Write suitable command   CO5
for establishing connectivity.

OR

What is Socket programming? Write a sample server side and client side java program.