



Date: 03-04-2019  
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

**Part A**

**Answer ALL the Questions**

**(10 \* 2 = 20)**

1. Define Scope of a variable.
2. State the uses of JVM.
3. State the uses of :? operator
4. Give an example for Else If Ladder
5. Define Final Class, Final Methods and Final Variable.
6. What is an Array? Give the syntax to declare 2D Array.
7. Define Multithreading.
8. What is Runnable interface?
9. Differentiate Applet and Application
10. What is a Prepared Statement?

**Part B**

**Answer ALL the Questions**

**(5 \* 8 = 40)**

11. a. Give the concepts and benefits of OOP.

(or)

b. Discuss about the features of Java.

12. a. What is an expression? Give the Precedence. How arithmetic expressions are evaluated in Java.

(or)

b. With a java code demonstrate the uses of Switch statement.

13. a. Define Class and Object. Write a Java Class STUDENT and do the following (a) Define constructors to initialize the member data (b) member function to Display the details. Write main to access the class.

(or)

b. Write short notes on Abstract class and Static methods

14. a. Describe the Complete Lifecycle of a Thread.

(or)

b. What is a Package? Write a code for creating, accessing and using a package.

15. a. Define Applet. Describe its Life Cycle.

(or)

b. Write a code to create a file, read and write characters to it.

### Part C

**Answer Any TWO Questions**

**(2 \* 20 = 40)**

16. (i) Give the basic structure of a java program. Write a java code to demonstrate type casting.

(ii) Write short notes on Java Decision making and Looping

17. (i) Define Interfaces. State its uses. Write an interface for stack and a java program for using the same.

(ii) Define Exception. Give its Types. How exceptions are handled in Java.

18. (i) Explain establishing a connection and retrieving data from a table using JDBC.

(ii) Explain the process of adding an applet to HTML file and passing parameters to it.

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