

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (IT) (Sem.-7th, 8th)

INTRODUCTION TO JAVA

Subject Code : IT-402

Paper ID : [A0529]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A is COMPULSORY.**
2. **Attempt any FOUR questions from SECTION-B.**
3. **Attempt any TWO questions from SECTION-C.**

SECTION-A (10 × 2 = 20 Marks)

1. Write short notes on :

- (a) What is data abstraction?
- (b) Write a program to compute sum of digits of a given number.
- (c) What is a local variable?
- (d) What is a data type?
- (e) What is a constructor?
- (f) What are the unique advantages of an object oriented programming paradigm?
- (g) What is overloading?
- (h) When do we declare a method or a class as abstract?
- (i) What are objects ? How are they created from a class?
- (j) What is exception?

SECTION-B (4 × 5 = 20 Marks)

2. Describe different forms of inheritance with examples.
3. Explain methods that are used to design the TCP/IP server socket in Java.

4. Write a program to read two strings S1 and S2 and compare whether the two strings are same or not.
5. What is typecasting? Why is it required in programming?
6. What is a thread? How do we start a thread? Explain.

SECTION-C

(2 × 10 = 20 Marks)

7. Develop an applet that receives three numeric values as input from the user and then display the largest of three on the screen.
8. What are the two methods by which we may stop threads? Explain with the help of a program.
9. What is a package? How do we add a class or an interface to a package? Explain.