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Total No. of Questions : 09]   [Total No. of Pages : 02

B.Tech. (Sem. - 7th/8th)

INTRODUCTION TO JAVA

SUBJECT CODE : IT - 402

Paper ID : [A0529]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours   **Maximum 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

Q1)   *(10 × 2 = 20)*

a) What is stub class? Is it necessary to create it.

b) Where do we use the adapter classes.

c) Define the term stream and its significance.

d) Define the term persistence in the context of Java.

e) What do you mean by distributed object technology?

f) What for the keywords "this" and "super" are used in Java?

g) Why is Java more secured than other languages.

h) Name different ways to implement the symbolic constants in Java.

i) What is the importance of using Unicode character set in Java.

j) What do you understand by method overriding.

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Section - B

(4 × 5 = 20)

Q2) Why do we need interfaces in Java? Discuss in brief.

Q3) Describe in brief the various types of Exceptions that might occur in Java.

Q4) How do the jar files work in java? What happens if the manifest file is missing in jar file.

Q5) What are the different types of I/O handling methods in Java? Describe in brief?

Q6) Discuss five major methods supported by socket class.

Section - C

(2 × 10 = 20)

Q7) What is multithreading? How it is implemented in Java? Explain with the help of an example program code.

Q8) What do you mean by string? Name any six string handling functions of Java. Also write a program that reads a string from the keyboard, reverses it and check whether the string is palindrome or not.

Q9) Write short notes on the following :
  (a)   Java control structures.
  (b)   Applet Class.

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