Roll No. ....

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) Differentiate between method overloading and overriding.

b) Which method should be used to stop the thread that is currently running?

c) Can we pass object as parameter to call a method in Java? Justify your answer.

d) List the types of exception that are possible in Java.

e) Explain the main role of finalize() method in Java.

f) Explain the role of super in inheritance in Java.

g) Can you create more than one thread in Java Language? Justify your answer.

h) Name the classes those can be passed as a parameter to the constructor of the Socket class.

i) What do you mean by automatic type promotion?

j) Explain the role of join() method in multithreaded programming with the help of an example.

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Section - B

(4 × 5 = 20)

Q2) "Java is more secured than other languages". Justify your answer for the same.

Q3) Write a program in JAVA to perform following functions :

(a) To compare two strings.

(b) To change the case of the characters.

Q4) Explain methods that are used to design the TCP/IP server socket in Java.

Q5) Write a program in JAVA to swap two given variables with the use method overloading.

Q6) Write a program in JAVA to arrange the city names in ascending order.

Section - C

(2 × 10 = 20)

Q7) Why synchronization is necessary in multithreaded programming? Explain with the help of a example.

Q8) Is multiple inheritance possible in Java? Justify your answer.

Q9) Write an applet program to perform basic arithmetic calculations.

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