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Total No. of Questions : 09]

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Paper ID [IT402]

(Please fill this Paper ID in OMR Sheet)

B.Tech. (Sem. - 7th/8th)
INTRODUCTION TO JAVA (IT - 402)

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 do you understand by object oriented programming?

b) What are the various data types of JAVA? Give examples of each.

c) What is derived class in JAVA?

d) Name methods overloading inheritance.

e) Write a program in JAVA to overload constructors.

f) What do you understand by stopping a thread?

g) List the operations that are performed on strings. Give examples of each.

h) Define applets.

i) Why JAVA is important to the Internet?

j) What are the important features of JAVA?

Section - B

(4 × 5 = 20)

Q2) Describe different types of control statements of JAVA with examples.

Q3) What are multiple inheritances? How is it supported by JAVA?

Q4) Discuss the steps involved in loading and running remote applets.

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Q5) Write a program in JAVA to arrange the list of names in ascending order.

Q6) Describe the complete life cycle of a thread in JAVA. What is synchronization? When do we use it?

Section - C

(2 × 10 = 20)

Q7) Write a program in JAVA to find the numbers and sum of all integers greater than 100 and less than 200 that are divisible by 7.

Q8) Explain the exception handling model supported by JAVA. What is 'finally block'? When and how is it used? Give suitable example.

Q9) How garbage collection is done in JAVA?

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