

Roll No.

Total No. of Questions : 09]

[Total No. of Pages : 02

MCA (Sem. - 3rd)
JAVA PROGRAMMING
SUBJECT CODE : MCA - 304 (2012 Batch)
Paper ID : [B1160]

Time : 03 Hours

Maximum Marks : 100

Instruction to Candidates:

- 1) Attempt any One question from each Section - A, B,C & D.
- 2) Section - E is **Compulsory**.
- 3) Use of non - programmable **Scientific Calculator** is allowed.

Section - A

- Q1)** Explain the use of autoboxing, unboxing, garbage collection and finalize method in java with an example of each.
- Q2)** What is string? How strings are handle in classes? Write Java Program to arrange a list of names alphabetically.

[1 × 20 = 20]

Section - B

- Q3)** What is Inheritance? What are various types of it? Explain the use of interfaces in inheritance with an example.
- Q4)** What is exception handling? Why it is required? Explain the various ways to handle exception with and example of each.

[1 × 20 = 20]

Section - C

- Q5)** What is graphics programming? How graphics handle in Java? Write a java code to pass parameters to applet.
- Q6)** Explain 2D transformation on object in JAVA with a programming code.

[1 × 20 = 20]

Section - D

Q7) What is the use of servelets? Explain the role and working of servelets programming with an example.

- Q8)** a) Explain the various methods associated with UPP and TCP sockets.
b) Explain the role of JSP in java with an example.

[1 × 20 = 20]

Section - E

Q9)

(10 × 2 = 20)

- a) What are private members?
- b) What is the use of nesting of methods?
- c) What is the purpose of doGET method?
- d) What is socket?
- e) What is the purpose of class and object?
- f) Define the procedure to declare array in Java.
- g) What is the difference between static and final class?
- h) What is role of abstraction?
- i) What do you mean by overriding?
- j) Write the use of frame.

