Printed Pages : 3 **MCA314**

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 7311 Roll No.

M.C.A

(SEM III) ODD SEMESTER THEORY EXAMINATION 2009-10
INTERNET & JAVA PROGRAMMING

Time : 3 Hours] *[Total Marks : 100*

Note : *Attempt all questions.*

1 Attempt any **four** parts : 5×4=20

(a) What is an internet? What protocols are used by computers connected to the internet?

(b) What is FTP and how does it works?

(c) Write the facilities provided by an e-mail system.

(d) What is URL? What are the different parts of a URL? Explain the purpose of each part in brief.

(e) Explain CSMA/CD.

(f) Give the H/W and S/W requirements for video-conferencing.

2 Attempt any **four** parts : 5×4=20

(a) Why is Java called machine independent language? Discuss the functionality of Java virtual machine.

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(b) What is thread? Discuss the advantages of threading.

(c) What do you mean by overloading and overriding methods in Java? Explain with suitable examples.

(d) Describe Java Applet and also discuss the different stages in the life cycle of an applet.

(e) Define the following terms in context of AWT

    (i) canvas

    (ii) Event

    (iii) Frame

    (iv) Dialog

    (v) Button

(f) Explain inheritance with example.

3 Attempt any **two** parts :   **10×2=20**

(a) What is JDBC? How JDBC is used to connect with data base? Illustrate with example.

(b) Differentiate between serlets and applets. How trees are implanted in Java Swing ? Give suitable examples for illustrations. It should be able to recognise mouse click on it.

(c) What is the purpose of combo box? Give an implementation which creates a combo box and add it to a panel.

4 Attempt any **two** parts :   **10×2=20**

(a) What is a Java Bean? What are the advantages of Java Bean? Why developer use application builder tools with Java Bean?

(b) (i) Give the purpose and syntax of jar commands. Further give the command for extracting files from a JAR file.

(ii) Discuss the steps to be followed to create new bean.

(c) (i) What is RMI? Discuss its advantages.

(ii) Define socket. How can we use socket programming in Java?

Write short notes on any **two** of the following :   **10×2=20**

(a) JSP

(b) Cookies

(c) Strings handling in Java.

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