



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

PAPER ID : 7311

Roll No.

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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.



- (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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