

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

**PAPER ID : 1011**

Roll No.

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## B.Tech.

FIFTH SEMESTER EXAMINATION, 2005-2006

### INTRODUCTION TO WEB TECHNOLOGY

Time : 3 Hours

Total Marks : 100

- Note :**
- Answer **ALL** questions.
  - All questions carry equal marks.
  - Be precise in your answer.

1. Attempt **any four** of the following questions :

- What are protocols? What do they do? What allows any size computer to be able to send and receive through the Internet ? (2+1+2)
- While visiting a website, it is not uncommon for the site to be collecting information about you. This information is saved in a file that is typically stored on your hard disk to be retrieved and used again the next time you visit the website. What type of information do you think is being collected ? Do you think site has an ethical obligation to inform visitors that it is collecting information ? Is there an ethical obligation to inform visitors before using their computer resources ? Do you see the activity as an invasion of privacy ? Why or Why not ? (1+1+1+2)

(c) There are various buttons on the toolbar of Internet explorer. Explain what each one of them stands for : (1x5)

- (1) Favorites
- (2) History
- (3) Refresh
- (4) Full Screen
- (5) Mail

(d) What do you mean by having effective web page titles ? Why do you think using effective web page titles is important step of web site construction ? (1+4)

(e) Explain briefly the various steps you take while developing a web site. (5)

(f) What is a search engine ? How would you get information using a search engine ? (2+3)

2. Attempt *any four* of the following questions :

(a) What is URL ? What is the role of port number in URL ? Give example of URL's that (i) contain a host name (ii) do not specify a host name. (1+2+1+1)

(b) What is electronic commerce ? What is differentiating feature of electronic commerce from print and broadcasting mediums ? (2+3)

(c) What is Java Script ? Why do you think java script plays important role in web designing ? (2+3)

(d) Your Web site requires some entries to be filled in by the visitor. These entries may be his/her name and password, thus you are required to create a form. How would you create such a form ? (5)

technology professionals from 50 countries, 73% of all the companies reported some security breach during the past 12 months. However companies doing their business through their web site or implementing electronic supply chains and enterprise resource planning applications were significantly more likely to be victims of security loss that affected their revenues and corporate data.

Comment and suggest what can business companies do about this ? (5)

- (f) Who initiates client/server interaction : the client or the server ? How is this done ? Which of the following are clients and which are servers ? (1+1+3)

- (1) A web browser
- (2) A web site where you can access a general search engine
- (3) A web site that tells you the correct time
- (4) A program that displays news headlines on your desktop
- (5) A web site that tells you the speed of your internet connection
- (6) A program that tracks stock prices and displays a customized ticker for you.

Attempt *any two* parts of the following questions :

- (a) List some salient features of JAVA. How is Java strongly associated with Internet ? Draw a flowchart to show how various java tools are used in the application development. (4+2+4)

- (b) What is an applet ? How do applets differ from application programs ? Develop an applet that displays the string "hello java" on the screen and explain how does an applet work ? (3+3+4)
- (c) Java has two ways to create child threads, what are these two methods ? Explain them. Which of the two, do you think is better and why ? (4+4+2)
4. Attempt *any two* parts of the following questions :
- (a) Abstract Window Toolkit (AWT) defines windows according to class hierarchy that adds functionality and specificity at each level. Give description of class hierarchy for Panel and Frame. Give Brief introduction to Component, Container, Panel, Window, frame, and canvas classes.  
Write a simple applet to draw a Cone. (2+5+3)
- (b) What are the controls supported by AWT ? Give description of each of them. (10)
- (c) Write short notes on the following : (5+5)
- (1) Double Buffering
- (2) Cell Animation
5. Attempt *any two* parts of the following questions :
- (a) What is a java bean and what are the advantages of java beans ? Why is it necessary to understand JAR files before developing a bean. Give commands for the following : (3+4+3)

- (1) To create a JAR file named Xyz.jar that contains all of the .class and .gif files in the current directory.
  - (2) To use available manifest file Yxz.mf
  - (3) To list the contents of Xyz.jar
  - (4) To extract the contents of Xyz.jar and places those files in the current directory.
  - (5) To add the file file1.class to Xyz.jar
  - (6) To add files below directory X to Xyz.jar
- (b) What is ImageMenu applet and how is it different from Navigation applet? Explain the following methods associated with the ImageMenu applet (2+3+5)
- (1) init()
  - (2) update()
  - (3) lateInit()
  - (4) mouseExited()
  - (5) paint()
- (c) Write short notes on the following : (5+5)
- (1) Destructors versus finalization
  - (2) Converting C++ abstract classes into Java Interfaces.