

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

PAPER ID : 0113

Roll No.

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### B.Tech.

(SEM. IV) THEORY EXAMINATION 2010-11

### WEB TECHNOLOGY

Time : 3 Hours

Total Marks : 100

Note :—Attempt all questions.

1. Attempt any **four** parts of the following :— (4×5=20)
  - (a) What are the similarities and differences between web projects and stand alone projects ?
  - (b) What are the various Web development strategies ? Discuss.
  - (c) Explain the security issues related to the Websites.
  - (d) Discuss the accessibility issues while creating websites for individuals.
  - (e) Explain the various application protocols for Internet.
  - (f) Discuss the various steps to create a website.
2. Attempt any **four** parts of the following :— (4×5=20)
  - (a) Compare and contrast HTML and XML showing their capabilities, limitations etc.
  - (b) Describe the mechanism of DOM and SAX parser with its architecture.
  - (c) Write a program in Java script to build up a clock.
  - (d) What is the difference between external and internal DTD ? Create a XML file which explains the attributes of phones using DTD.

- (e) What is style sheet ? What are different ways of creating style sheets ?
- (f) What is the difference between ID and class selector ? How will you group style rules ?
3. Attempt any **two** parts of the following : (10×2=20)
- (a) What are Java Beans ? Give its types and explain what are the different phases in the development of Java Beans.
- (b) Explain EJB and its architecture. What are its different types ? Draw the classification of EJB.
- (c) Explain the mechanism of HTTP request and response in details.
4. Attempt any **two** parts of the following :— (10×2=20)
- (a) What do you mean by JSP processing ? How JSP pages are handled ? Explain various JSP directives with suitable examples.
- (b) What does a Web Server do ? What is the criteria to choose a Web Server ? Explain the working of Apache Tomcat server.
- (c) Explain the error handling and debugging mechanism in JSP in details.
5. Attempt any **two** parts of the following : (10×2=20)
- (a) Explain the Javax.sql.\* package in details.
- (b) Explain JDBC application architecture. What are various types of JDBC drivers ? Write steps to connect database with the web application using JDBC.
- (c) Design an automated entry of a user profile through a form using JSP struts Framework. Draw and explain the architecture of the Framework.