Total No. of Questions : 5]   [Total No. of Printed Pages : 2

Roll No ....

CS-802
B.E. VIII Semester
Examination, December 2016
Web Engineering
Time : Three Hours

Maximum Marks : 70

Note: i)   Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each question are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

v)   Assume suitable value for missing data, if any.

1. a) Write short notes on n-tier Web architecture.
    b) Discuss the brief history of World Wide Web.
    c) Explain various mapping procedure for conversion of domain name to IP address in DNS protocol.
    d) Describe the step involved when a web browser requests for find and obtains a web page from web server.

    OR

    Discuss in brief Hyper Text Transfer Protocol (HTTP). Explain HTTP header format and request response model.

2. a) Briefly explain process of web publishing.
    b) Define various parameters for organizing website.
    c) Write various ways for designing navigation and searching system of web site.

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    d) How to implement security services for any web document? Write short notes on security audit and web effort estimation for web security.

    OR

    Describe adaptive requirement engineering for web application and also write principles of requirement engineering.

3. a) Describe the structure of a HTML document.
    b) Write a code to display any animation using DHTML.
    c) What is Cascading Style Sheet (CSS)? Explain different types of CSS with example.
    d) Explain different types of Web documents with the help of suitable example.

    OR

    Differentiate between JSP and Servelet using suitable example. How to measure scalability of web server?

4. a) Why we need ontology for developing web application?
    b) Write short notes on DTD.
    c) Differentiate between feature of XML and HTML.
    d) Explain web personalization and semantic web using suitable example.

    OR

    Using suitable example, explain how XML content can be embedded in to HTML document.

5. a) State the function of Firewall in e-commerce.
    b) Write feature of B2B e-commerce.
    c) Give detail about smart card and micro payment system.
    d) Explain SET protocol for credit card payment system.

    OR

    Define the generation and verification of the digital signature using Digital Signature Standard algorithm.

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