B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2017.

Fifth Semester

Computer Science and Engineering

CS 6501 – INTERNET PROGRAMMING

(Regulations 2013)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Write a Java program that displays the result of floating -point division.
2. Differentiate packages and interface.
3. List any two rich Internet applications
4. What is the difference between website and web server?
5. How exceptions are handled in Java script?
6. What are the three methods that is central to the lifecycle of a servlet?
7. How can a PHP program determine the type of browser that a web client is using?
8. List any two advantages of XML document.
9. What is the need of SOAP?
10. What do you mean by a web service?

PART B — (5 × 16 = 80 marks)

11. (a) Write a Java program that inputs three integers from the user and displays the sum, the largest number, the smallest number and determines whether the third number is a product of the first two numbers.

Or

(b) (i) Explain Java thread model with an example. (8)

(ii) What do you mean by an Applet? Create a Java program that repeatedly flashes image on the screen. (8)

12. (a) (i) Explain the enhanced features in HTML 5.0 with a neat example. (8)

(ii) Create an XHTML document that marks up your resume. (8)

Or

(b) (i) Write the CSS rule for controlling the positioning of elements in an XHTML document. (8)

(ii) Write a Javascript that calculates the product of the odd integers from 1 to 15 and then outputs the XHTML text that displays the result. (8)

13. (a) Write a program that allows the user to select a favourite programming language and post the choice to the server, The response is a web page in which the user can click a link to view a list of book recommendations. The cookies previously stored on the client are read by the servlet and form a web page containing the book recommendation. Use servlet, cookies and HTML.

Or

(b) Write a complete query application for books database using JDBC.

14. (a) (i) Write a PHP program that tests whether an e-mail address is input correctly. Verify that the input begins with a series of characters, followed by the @ character, another series of characters, a period '.' and a final series of characters. Test your program with both valid and invalid e-mail addresses. (8)

(ii) Create an XML document that marks up various sports and their descriptions. Use XSLT to tabulate neatly the elements and attributes of the document. (8)

Or

(b) (i) Discuss the merits and demerits of DOM and SAX parsers with neat examples. (8)

(ii) Write a JSP page that enables the user to input the first name and in response outputs the last name. (8)

15. (a) How to create, publish and test a web service. Explain with suitable examples using WSDL.

Or

(b) (i) Explain with illustrations, Ajax client server architecture. (6)

(ii) Create an XMLHttpRequest to retrieve data from an XML file and display the data in an HTML table. The data to be retrieved is a collection of stationary items stored in an XML file. (10)

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