13MCA552

Fifth Semester MCA Degree Examination, June/July 2019
Web 2.0 and Rich Internet Applications

Time: 3 hrs.   Max. Marks:100

Note: *Answer any FIVE full questions.*

1 a. List the technology that work behind AJAX, explain briefly.   **(04 Marks)**
   b. With a neat diagram, compare AJAX web model with classical web model.   **(08 Marks)**
   c. How do you create a hidden frame? Explain hidden frame communication with a neat diagram.   **(08 Marks)**

2 a. What are the advantages of XMLHttpRequest object?   **(04 Marks)**
   b. Explain with a code snippet, how XMLHttpRequest object is used with GET and POST methods.   **(08 Marks)**
   c. Write an AJAX program to read color.xml and display the contents on the web page.   **(08 Marks)**

3 a. What is browser cache problem? How do you overcome this?   **(04 Marks)**
   b. Write an AJAX program to download HTTP headers from google.html.   **(08 Marks)**
   c. What is a parser object? Explain with necessary code, how is it used to check the validation of XML document.   **(08Marks)**

4 a. What is AJAX pattern? List the different types of AJAX communication Patterns.   **(04 Marks)**
   b. Draw a neat flow chart of submission Throttling pattern and explain.   **(08 Marks)**
   c. Demonstrate an AJAX program to append a new element to a web page using DOM.   **(08 Marks)**

5 a. Write the syntax and explain the an example, the following DOM functions
       i) replaceNode ( )   ii) insertBefore ( ).   **(04 Marks)**
   b. Develop a PHP script to detect the browser, display message differently with internet explorer and other browsers.   **(08 Marks)**
   c. What is the necessity of time out in web applications? How time out is handled in AJAX? Explain with code.   **(08 Marks)**

6 a. What is flex? Explain the technologies associated with flex.   **(04 Marks)**
   b. Discus the various components of flex frame work.   **(08 Marks)**
   c. Write similarities and differences between traditional web and flex web applications.   **(08 Marks)**

7 a. Write a MXML program to display welcome message on click of a button.   **(04 Marks)**
   b. Describe with a neat class diagram, various container components.   **(08 Marks)**
   c. With respect to action script, write a short notes on :
       i) Inheritance and Interfaces   ii) Run time error handling.   **(08 Marks)**

8 a. Explain the various types of data binding.   **(04 Marks)**
   b. Bring out the relationship between states and transitions using an example program.   **(08 Marks)**
   c. Write short note on :
       i) Formatters and validators in flex
       ii) Ontologies and collaborative tagging.   **(08 Marks)**

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