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Total No. of Pages: 02
Total No. of Questions: 09

MCA.(Sem.-5th)
WEB TECHNOLOGIES
Subject Code: MCA-503
Paper ID: [A3161]

Time: 3 Hrs.

Max. Marks: 100

INSTRUCTIONS TO CANDIDATE:

1. Attempt Five Questions in all
2. Selecting one each from section-A to section-D
3. Section-E is Compulsory.

Section –A

Q.1.

- (a) What is XML? Write the difference between XML- DTD and XML -schema, Explain XML DTD for any tag with example.
- (b) Design XML file to store the details of bill with elements like bill#, bill-date, PO#, bill- amt, bill- due, and date. (10,10)

Q.2.

- (a) Discuss why a XML namespace is important? How do you declare and use a name space?
- (b) What is document object Model (DOM)? What is the purpose of the XML DOM? How an in-memory representation of an XML document is created? (10, 10)

Section –B

Q.3.

- (a) What is AJAX and what are the benefits from its asynchronous communication support?
- (b) Compare and contrast AJAX with Java Applet to highlight their strengths and weaknesses. Describe each technology in turn by listing its advantage and weakness, and provide an overall conclusion stating under which circumstances each can be used to greatest benefit. (5, 15)

- Q.4. What is jQuery? Why do we use jQuery? What are selectors in jQuery and how many types of selectors are there? What is the difference between .empty (), .remove () and .detach () methods in jQuery? (20)

Section

- Q.5. Explain a simple object Access Protocol (SOAP) based approach to implement a Web service for a client. State what issues you would explore with the client regarding his requirements, and his servers and services environment, to enable a rational choice. Critically assess the advantages and disadvantages of the approach. (20)

- Q.6. What is JavaScript Object Notation (JSON)? Why does JSON matter? How do we use JSON in a project? Take an example to show how JSON works in real- world example.(20)

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Section –D

- Q.7. Explain objectives of a Content Management System (CMS)? What are various components of a content Management System (CMS)? Name any two computer based CMS. (20)
- Q.8.
- (a) What is the Difference Between a Content Management System (CMS) and a Blog?
 - (b) “Word Press is a free, open-Source content management system that powers millions of websites worldwide”. Justify the claim. (5, 15)

Section –E

- Q.9. (10x2=20)
- (a) Explain the role of XML in open Source Software Development.
 - (b) What are XML editors?
 - (c) What is XSLT?
 - (d) Explain the use of a dashboard in managing various aspects of a Word press powered web-site.
 - (e) How can a request be created and sent to server using AJAX?
 - (f) What is the difference between web service and web server?
 - (g) Is jQuery replacement of Java Script?
 - (h) In distributed systems, what is SOAP, and what is it used for?
 - (i) Explains the message structure of SOAP.
 - (j) What does JSON? Stringify(myJavaScriptObject) do?

*****END*****