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**K 3543**

M.C.A. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2007.

Fifth Semester

MC 1801 — XML AND WEB SERVICES

(Regulation 2005)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is an element in XML document?
2. What are the advantages of using XML?
3. How is namespace useful in XML?
4. What is the need for XSLT for an XML document?
5. What is the purpose of SOAP?
6. Name any four design patterns.
7. What for UDDI is suitable?
8. What are the advantages and challenges in E-Com?
9. What is digital signature?
10. What is canonicalization?

PART B — (5 × 16 = 80 marks)

11. (a) Explain the web service protocol stack.

Or

- (b) Write an XML document to illustrate elements, attributes and CDATA section.

12. (a) Create a DTD for mark statement of a student. Write a program to retrieve the elements and attributes of the XML document and display the mark statement in a table format.

Or

- (b) Write an XML document to illustrate XSL, parameter entities, reference entities, CDATA sections allowing different types of contents in the document.

13. (a) Explain the SOAP message structure and illustrate SOAP with attachments.

Or

- (b) Write a complete set of programs to illustrate XML RPC and SOAP message passing.

14. (a) Write a program to illustrate web service in .NET environment. Write all the files required to implement web service.

Or

- (b) Compare J2EE and .NET framework in the context of web services.

15. (a) Explain XML security framework.

Or

- (b) Explain the signing of XML document using XML encryption.
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