M.C.A. DEGREE EXAMINATION, FEBRUARY/MARCH 2018.

Fifth Semester

DMC 1951 — XML AND WEB SERVICES

(Regulations 2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is XML tag? Give an example.
2. List the three Revolutions of XML.
3. State the components of RDF.
4. Write down the uses of XSLT and CSS.
5. Write a short note on different methods in HTTP.
6. Define COBRA, RMI and DCOM.
7. Write note on opportunities and risks in web services.
8. Define the UDDI.
9. Mentions the three XML security technologies.
10. Write down any two digital signature elements.

PART B — (5 × 16 = 80 marks)

11. (a) Give elaborate discussion on SOAP and Web Services. (16)

Or

(b) Discuss elaborately on Service Oriented Architecture (SOA). (16)
12. (a) (i) Write a note on VoiceXML and its store procedure with suitable diagram. (8)
   (ii) Write a short note on XML Schemas. (8)

Or

(b) (i) Explain the technologies used in XML transformation. (10)
   (ii) Write note on name spaces in XML. (6)

13. (a) (i) Write elaborate note on XML-RPC with neat diagram. (10)
   (ii) What is SOAP and why is it important? (6)

Or

(b) Explain the following
   (i) SOAP with attachments. (8)
   (ii) What is HTTP? Explain its methods with neat diagram. (8)

14. (a) Give discussion on web service architecture and its key technologies.

Or

(b) (i) Write a brief discussion on ebXML. (8)
   (ii) Explain UDDI in detail. (8)

15. (a) (i) What are the steps involved in Canonicalization process? (8)
   (ii) What is encryption in XML? Explain. (8)

Or

(b) Write elaborate note on XKMS and guidelines for signing XML documents. (16)
PART A — (10 × 2 = 20 marks)

1. What is the role of XML?
2. What are web services?
3. What is DOM? What are the different levels of DOM?
4. What is VoiceXML?
5. What is the purpose of POST command?
6. What is SOAP with attachments?
7. What is ebXML?
8. State ACID properties.
9. What is public key cryptography?
10. Give the guidelines for signing XML documents?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain how XML may be used to communicate directly with partners and suppliers with diagram. (8)
     (ii) Describe the major aspects of web services and its framework with diagram. (8)

     Or

(b) List and explain three revolutions of XML. (16)
12. (a) (i) Discuss XML namespaces in detail. (7)
    (ii) What is DTD? Explain the creation of external DTD with example. (9)

    Or

(b) (i) Write a short note on cascading style sheet. (6)
    (ii) Explain the transformation techniques in detail. (10)

13. (a) (i) Discuss XML-RPC datatyping and responses. (8)
    (ii) Describe SOAP protocol. (8)

    Or

(b) Explain SOAP message structure, intermediaries and actors, design patterns, and faults in detail. (16)

14. (a) Discuss UDDI and WSDL. (16)

    Or

(b) (i) Explain .NET platform and .NET framework. (8)
    (ii) Write short note on J2EE. (8)

15. (a) (i) Discuss XML security framework in detail. (7)
    (ii) Describe the procedure to encrypt XML data. (9)

    Or

(b) (i) Explain the elements of digital signature and the steps to generate digital signature. (8)
    (ii) Discuss the structure of XKMS. (8)
M.C.A. DEGREE EXAMINATION, FEBRUARY/MARCH 2016.
Fifth Semester
DMC 1951 — XML AND WEB SERVICES
(Regulations 2009)

Time : Three hours
Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the roles of XML in web development?
2. What are the essential parts of XML language?
3. List the data types used in XML Schema.
4. What is namespace?
5. Define actor.
6. When do SOAP faults occur?
7. List the different types of pages used in UDDI.
8. Define CLR.
9. What is Public key cryptography?
10. What are the specifications of XKMS?

PART B — (5 × 16 = 80 marks)

11. (a) Discuss about the various revolution that caused the development of XML.

(b) (i) Describe the architecture of SOA in detail.  
     (ii) Compare XML with HTML.
12. (a) Explain the various presentation techniques used in XML. (16) 

Or 

(b) What is DTD and explain its types with example. (16) 

13. (a) (i) Explain the different types of messages and methods used in the Client Server model by the HTTP. (10) 

(ii) Compare XML-RPC with SOAP. (6) 

Or 

(b) What is SOAP? Explain its message format and how to add attachments in it. (16) 

14. (a) Define the structure of WSDL and explain its elements with suitable example. (16) 

Or 

(b) (i) Discuss how .Net and J2EE supports web technologies. (8) 

(ii) Write note on ebXML. (8) 

15. (a) Write note on: 

(i) XML Canonicalization. (8) 

(ii) XML Encryption. (8) 

Or 

(b) Discuss in detail about XML digital signature. (16)
M.C.A. DEGREE EXAMINATION, AUGUST 2015.
Fifth Semester
DMC 1951 — XML AND WEB SERVICES
(Regulations 2009)
Time : Three hours
Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the advantages of XML?
2. What are the three key design elements that by omission contribute XML’s success?
3. What is DOM? List the different levels of DOM.
4. Define RDF.
5. What data type does SOAP use?
6. When do SOAP fault occur?
7. What are the risks in web services?
8. List out the web service pack in J2EE.
9. Write the steps involved in XML encryption.
10. List the guidelines for signing XML documents.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain the revolutions of XML.  (10)
    (ii) Discuss the role of XML.  (6)

    Or

(b) Explain Service Oriented Architecture with diagram.  (16)
12. (a) (i) Discuss the XML infrastructure. (8)
    (ii) Describe XML transformation. (8)

    Or

    (b) Explain the various presentation techniques in XML. (16)

13. (a) Write in detail of SOAP architecture and how it differs from HTTP and XML. (16)

    Or

    (b) (i) Discuss the design patterns of SOAP. (8)
    (ii) Describe SOAP with attachment. (8)

14. (a) Explain the concept of UDDI and WSDL tags with example. (16)

    Or

    (b) Explain the features and components of .NET framework. (16)

15. (a) Explain XML document structure with XML parse creation. (16)

    Or

    (b) (i) Describe about XKMS Structure. (8)
    (ii) Discuss the need of XML security. (8)
M.C.A. DEGREE EXAMINATION, FEBRUARY/MARCH 2015.

Fifth Semester

DMC 1951 — XML AND WEB SERVICES

(Regulations 2009)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the different revolutions in which XML is playing a major role?
2. Differentiate web application and web service.
3. Write the differences between XML Schema and DTD.
4. What are the Element Naming Rules used in XML?
5. What is SOAP Encoding?
6. Write the purpose of Header element in SOAP document.
7. What is the power of Web Services being exposed through technologies like SOAP and REST?
8. What is ebXML? List the components of ebXML.
10. Write the structure of XKMS.

PART B — (5 × 16 = 80 marks)

11. (a) (i) What is XML? Explain the components in writing a XML document with an example. (10)
(ii) Write notes on processing XML documents. (6)

Or

(b) Explain SOA. Discuss how web services use SOA framework.
12. (a) Discuss the various presentation techniques in XML.

Or

(b) (i) Explain the concept of XML namespaces. How are namespaces declared and used in XML? (8)

(ii) Explain how to create complex type and complex content in XML schema. (8)

13. (a) What is the name of the SOAP communication style that supports asynchronous communications? Explain the structure of SOAP request and response message with an example.

Or

(b) Write notes on the following:

(i) SOAP with attachment (8)

(ii) Design patterns and faults. (8)

14. (a) What are Web Services Registry Directories? Explain the three UDDI query patterns with examples.

Or

(b) Compare J2EE and DOT Net framework in the context of web services.

15. (a) (i) Why do we need XML security? (6)

(ii) Discuss about the XML digital signature standards. (10)

Or

(b) What are the security challenges in web services? Explain how web services are secured using WS-security.