Reg. No. : | | | | | | | | | | | | | |

Question Paper Code : J1516

M.Sc. DEGREE EXAMINATION, FEBRUARY/MARCH 2018.

Third Semester – (*Elective*)

Computer Science

DCS 7002 — XML AND WEB SERVICES

(Regulations 2013)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Write the parse tree structure of XML program.
2. Give example of two types of DTDs.
3. What is EAI?
4. List the significances of RPC.
5. Define SOAP.
6. What is semantic web service?
7. Name any four web services technologies.
8. Write the components of XML signature
9. What is the use of ebXML?
10. What is BPEL?

PART B — (5 × 13 = 65 marks)

11. (a) What is DOM? Explain with an example. (13)

Or

(b) Write short notes on :

(i) XSLT. (6)

(ii) XQuery. (7)

12. (a) Explain the design and architecture of IB (13)

Or

(b) Describe on :

(i) Object brokers. (6)

(ii) Web technologies for application integration. (7)

13. (a) Illustrate web services framework. (13)

Or

(b) Explain :

(i) WS routing. (7)

(ii) WS security. (6)

14. (a) Describe the methods used for XML encryption. (13)

Or

(b) Explain the following :

(i) SAML. (7)

(ii) RDF. (6)

15. (a) What WS transaction? Explain in detail. (13)

Or

(b) (i) Explain service composition models. (6)

(ii) Give example of WS and its significance. (7)

PART C — (1 × 15 = 15 marks)

16. (a) Justify XML as a database and its significance for web services. (15)

Or

(b) Elaborate on anyone XML authoring tool for web service development. (15)

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Reg. No. : | | | | | | | | | | | | |

Question Paper Code : KJ1516

M.Sc. DEGREE EXAMINATION, FEBRUARY/MARCH 2017.

Third Semester – (Elective)

Computer Science

DCS 7002 — XML AND WEB SERVICES

(Regulations 2013)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is Document Type Definition (DTD)?
2. List the advantages of SAX.
3. Write down the layers of information system.
4. What are transactional queues?
5. Define web service.
6. What are the goals of UDDI?
7. What do you mean by canonicalization?
8. What is XKMS?
9. Compare composition versus coordination middleware.
10. What is Web Service Choreography Interface (WSCI)?

PART B — (5 × 16 = 80 marks)

11. (a) (i) With an example, explain the use of XML schema. (10)

(ii) Brief about XML presentation technologies. (6)

Or

(b) Explain the following :

(i) XSLT (10)

(ii) XPath (6)

12. (a) (i) Explain the two-tier architecture of Information systems. (10)

(ii) Describe the functionality of TP monitor. (6)

Or

(b) (i) Narrate the distributed administration of a message broker. (10)

(ii) List the benefits and limitations of a work flow management system. (6)

13. (a) Discuss the role of SOAP in web services in detail. (16)

Or

(b) (i) What is WSDL? Highlight its significance. (10)

(ii) Write note on WS-Routing. (6)

14. (a) (i) Describe the function of XML security framework. (10)

(ii) Explain the elements of digital signature. (6)

Or

(b) (i) Explain how to encrypt XML data. (10)

(ii) Enumerate the concept of semantic web services. (6)

15. (a) (i) Elaborate on Web service composition models. (10)

(ii) Highlight the features of ebXML. (6)

Or

(b) Discuss the use of Business Process Execution Language (BPEL) for Web Services. (16)

Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 80516

M.Sc. DEGREE EXAMINATION, AUGUST 2015.

Third Semester — (Elective)

Computer Science

DCS 7002 — XML AND WEB SERVICES

(Regulations 2013)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Highlight the features of XML.

2. What is XPath?

3. Write the need of message broker.

4. What is RPC?

5. List out the components of web services architecture.

6. What is WSDL?

7. What are the advantages of SAML?

8. What is RDF?

9. Highlight the need for service composition middleware.

10. Write the use of ebXML.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain the structure of Document Type Definition (DTD). (8)

(ii) Describe how to create an XML schema with an example. (8)

Or

(b) Discuss in detail about transforming XML with XSLT. (16)

12. (a) (i) Describe the layers of information system. (8)

(ii) Explain the functionality of TP monitor. (8)

Or

(b) (i) Discuss the workflow execution in EAI. (8)

(ii) Write a brief note on Web technologies for Application Integration. (8)

13. (a) Discuss in detail about the Web services technologies. (16)

Or

(b) (i) Explain the structure and contents of a SOAP message. (8)

(ii) Enumerate the importance of WS-addressing. (8)

14. (a) Write note on :

(i) XKMS structure (8)

(ii) Semantic web service. (8)

Or

(b) Discuss the steps involved for XML encryption process. (16)

15. (a) (i) Explain the components of WS – coordination. (8)

(ii) Highlight the significance of Business Process Execution Language (BPEL) for web services. (8)

Or

(b) Discuss the various service composition models. (16)

Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 80417

M.Sc. DEGREE EXAMINATION, AUGUST 2015.

Elective

Information Technology

DIT 001 – XML AND WEB SERVICES

(Regulation 2007/2009)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Write about merits of X-Files.
2. State the differences between XML Schema and DTD.
3. What is a web service?
4. Write the business motivations for web services.
5. What are the parts in the SOAP message?
6. How will you secure the web services?
7. List the components of ebXML.
8. Write the use of RosettaNet in web services.
9. Write about the role of meta data in web content.
10. What is XLANG? Write the importance of it in web services.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Compare the following technologies : (8)

(1) DOM and SAX.

(2) XML and HTML.

(ii) Explain the creation of DTD with example. (8)

Or

(b) (i) Discuss about XSL technologies with example. (8)

(ii) Write notes on XLINK and XPATH. (8)

12. (a) (i) What are the limitations of CORBA and DCOM? (6)

(ii) Describe about B2C web services. (10)

Or

(b) Discuss about Service-Oriented Architecture (SOA). (16)

13. (a) Describe about the Anatomy of WSDL with example. (16)

Or

(b) Briefly describe the Anatomy of UDDI and its failures and recovery. (16)

14. (a) Describe about the different types of B2B interaction in E-Business. (16)

Or

(b) (i) Explain how the XML technologies in Vertical industry. (10)

(ii) Write short notes on B2C Applications. (6)

15. (a) Draw the architecture of semantic web and explain it. (16)

Or

(b) Describe about the Resource Description framework in detail. (16)

Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 46417

M.Sc. DEGREE EXAMINATION, AUGUST 2014.

Elective

(Information Technology)

DIT 001 — XML AND WEB SERVICES

(Regulations 2007/2009)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is DOM? What are the different levels of DOM?

2. What are the naming for naming XML elements? Give two valid XML elements.

3. What is web service? Write the business motivations for web services?

4. Which types of connectors can generically he modeled in Service-Oriented Architecture (SOA)?

5. What is the primary purpose of the WSDL language in the web services standard?

6. Write the purpose of static and dynamic binding mechanisms. How they are supported by web service technology.

7. Write the use of web services for mobile devices.

8. What is ebXML? Write the components of ebXML.

9. What is metadata? What is the role of metadata in content management?

10. Briefly write about the two models of WSFL.

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 the following XML technology family. (4 × 4 = 16)

(i) XSLT (ii) XPATH

(iii) XLINK (iv) XQuery

12. (a) Explain how web services differ from the following distributed computing technologies.

(i) CORBO (ii) RMI

(iii) DCOM

Or

(b) What is web service composition? Explain with an example. Write the challenges in web service composition.

13. (a) Explain the SOAP message structure. Also explain the rules associated with the SOAP message structure.

Or

(b) Explain why UDDI can be described as being both a name service and a directory service, mentioning the types of enquiries that can be made. Also explain how web services are discovered.

14. (a) (i) Discuss in detail about applying XML in vertical industry. (8)

(ii) Write short notes on RosettaNet. (8)

Or

(b) What are the drawbacks of using EDI in e-business? Explain how XML is used in E-Business framework.

15. (a) What is semantic web? Explain the architecture of semantic web.

Or

(b) Discuss about content management. Explain how RDF is used in content management.

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Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 96417

M.Sc. DEGREE EXAMINATION, FEBRUARY/MARCH 2014.

Elective

Information Technology

DIT 001 – XML AND WEB SERVICES

(Regulations 2007/2009)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the uses of XML?
2. What is the emergence of XML?
3. List out the limitations of CORBA.
4. What are SOAP intermediaries?
5. Specify the data types used by SOAP.
6. Discuss about HTTP GET and HTTP POST.
7. Write note on RosettaNet.
8. What are the vertical industry markup languages?
9. What is RDF? Write its components.
10. What is structural content management?

PART B — (5 × 16 = 80 marks)

11. (a) (i) What is DTD? How it differ from XML? (6)

(ii) Explain the creation of extended DTF with example. (10)

Or

(b) (i) What is valid XML document? Explain. (6)

(ii) Explain any two presentation technologies. (10)

12. (a) (i) What are the various data types available in XML scheme. (6)

(ii) Explain SOA in detail. (10)

Or

(b) (i) How does SOAP different from other distributed computing technologies. (6)

(ii) What is XML-RPC? Explain in detail with the help of an diagram. (10)

13. (a) (i) Briefly describe the organization of UDDI. (6)

(ii) Explain WSDL and its manipulation. (10)

Or

(b) (i) Write notes on UDDI failures and recovery. (6)

(ii) Discuss about Ad-Hoc discovery and securing web services. (10)

14. (a) (i) Write the files required to implement web service. (6)

(ii) Explain the structure of ebXML with a neat block diagram. (10)

Or

(b) (i) Write the components of BEA Web Logic E-Business Platform. (6)

(ii) Explain the different types of B2B interaction. (10)

15. (a) (i) What is RDF schema? Write its importance to create web services. (6)

(ii) Explain XLANG and WSFL with an example. (10)

Or

(b) Explain the architecture of semantic web and discuss how content management work flow has been carried out in semantic web.

Reg. No. | | | | | | | | | | | | |

Question Paper Code : 86417

M.Sc. DEGREE EXAMINATION, AUGUST 2013.

Elective

Information Technology

DIT 001 — XML AND WEB SERVICES

(Regulation 2007/2009)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is an entity in XML document? How to define entity in DTD? Give example.

2. Differentiate elements and attributes in XML document. List out the reasons for not using attributes to store data.

3. What is DOM? What are the different levels of DOM?

4. What are the limitations of CORBA and DCOM? How does SOAP overcome these limitations?

5. What are the data types supported by XML Schema?

6. What do you mean by SOAP encoding? How to specify encoding style in SOAP?

7. What is Web Services? Give some practical use of Web Services.

8. When data is transmitted over the Web, SSL provides data security at the transport layer. However, when sending SOAP messages, the security provided by SSL is not adequate and WS-security is required for proper security. Comment on the above statement.

9. What are the three major aspects to extend the enterprise from a constrained network to broad reach of web?

10. What are the components of RDF?

PART B — (5 × 16 = 80 marks)

11. (a) Explain in detail about the various Presentation and Transformation technologies available in XML.

Or

(b) Compare the following:

(i) DTD and XML Schema (4)

(ii) CDATA and PCDATA (4)

(iii) Well formed and Valid XML documents (4)

(iv) Parameter Entity and Reference Entity. (4)

12. (a) Write short notes on architecting web services based on

(i) implementation view (4)

(ii) Logical view (4)

(iii) Deployment view (4)

(iv) Process view. (4)

Or

(b) (i) What is Service Oriented Architecture? Does Web Services follow SOA? Justify. (8)

(ii) Explain the business and technical motivations for web services. (8)

13. (a) (i) Web Services is basically based on XML. Name the three key technologies of Web Services and briefly describe what each is used for. (8)

(ii) Create the XML representations of the UDDI elements businessEntity, businessService, bindingTemplate and tModel for the bus transportation company and its bus service. Explain why UDDI can be described as being both a name service and a directory service, mentioning the types of enquiries that can be made. (8)

Or

(b) (i) Explain about SOAP with an example of Industry usage. State Business reasons for using SOAP. What are the advantages of SOAP over standard HTTP requests? (8)

(ii) What is the use of binding element in WSDL? How to define it in WSDL? (8)

14. (a) What are the three basic security requirements for e-business and explain? Explain the components of e-business XML systems.

Or

(b) Explain the following:

(i) ebXML. (8)

(ii) Web Services for mobile devices. (8)

15. (a) (i) What is metadata? How does it useful in content management? Explain the components of content management workflow. (8)

(ii) Define the following: XLANG and WSFL. (8)

Or

(b) (i) What is Semantic Web? Explain the architecture of Semantic Web with neat diagram. (8)

(ii) What is RDF? What is the role of RDF and RDF Schema in Semantic Web? (8)

Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 86417

M.Sc. DEGREE EXAMINATION, FEBRUARY/MARCH 2013.

Elective

Information Technology

DIT 001 – XML AND WEB SERVICES

(Regulation 2007/2009)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Highlight the advantages of XML schema over DTD.
2. Write the structure of XQuery.
3. Describe the architecture of web services.
4. What is the link between web services and SOA?
5. What are the uses of SOAP?
6. List the different pages associated with UDDI.
7. What are the uses of mobile web services?
8. What is the role of XML in B2B?
9. What is the difference between web and Semantic web?
10. Define a workflow system.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Write DTD for the following.

PLAYER(ID, FNAME, LNAME, MATCHES(PLAYED, RESULT(WON,LOST))) (8)

(ii) Compare DOM parser with SAX parser. (8)

Or

(b) (i) Narrate the advantages of XML over HTML. (8)

(ii) Give a detail note on Voice XML. (8)

12. (a) (i) Explain the uses of web services in travel domain. (8)

(ii) Explain the web service technology stack. (8)

Or

(b) (i) Compare tightly coupled architecture with loosely coupled architecture. (8)

(ii) Explain the implementation issues with web services. (8)

13. (a) (i) Compare SOAP with XML-RPC. (8)

(ii) Explain the structure of WSDL. (8)

Or

(b) (i) Explain the steps involved in web service discovery process. (8)

(ii) Write a sample SOAP request and response for a "hello" message. (8)

14. (a) (i) Highlight the features of ebXML. (8)

(ii) Explain the horizontal and vertical industry applications of XML. (8)

Or

(b) (i) Narrate the features of RosettaNet. (8)

(ii) List any four domain specific markup languages and highlight their features. (8)

15. (a) (i) Explain the role of meta data in web content. (8)

(ii) Highlight the features of workflow languages. (8)

Or

(b) (i) Explain the architecture of semantic web services. (8)

(ii) What is RDF schema? What are the advantages of using RDF? (8)

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Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 78517

M.Sc. DEGREE EXAMINATION, AUGUST 2012.

Elective

Information Technology

DIT 001 — XML AND WEB SERVICES

(Regulation 2007/2009)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define namespace. Give its usage.
2. Write the rules of W3C for XML.
3. Write any two differences between XSLT and CSS.
4. What are the security requirements for e-business?
5. What are the advantages of schema over DTD?
6. What is SOAP? List out the components of SOAP message structure.
7. What are Web Services Registry Directories?
8. What are the risks in Web Services?
9. State the advantages of semantic web.
10. Specify the usage RDF in search engine.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Briefly discuss about XLINK and XPATH. (6)

(ii) Explain the role of XML in extended enterprises. (10)

Or

(b) (i) Write the XML History. (6)

(ii) Explain the following presentation technologies. (10)

(1) CSS

(2) XSL.

12. (a) (i) Discuss the limitations of CORBA and DCOM. (6)

(ii) What is SOAP? Explain. (10)

Or

(b) (i) What are the technology motivation for B2B and B2C?Explain. (6)

(ii) Explain about web service technology stack. (10)

13. (a) (i) List out the transport protocols for web services. Explain. (6)

(ii) Explain the structure of SOAP with attachment. (10)

Or

(b) (i) What is web service inspection? Explain. (6)

(ii) What is WSDL? Explain web service policy using WSDL. (10)

14. (a) (i) What is RosettaNet? Explain. (6)

(ii) Explain the components of e-business XML system. (10)

Or

(b) (i) What are the web services available for mobile devices? (6)

(ii) Explain the various types of B2B interaction. (10)

15. (a) (i) Specify the role of meta data in web content. (6)

(ii) What is content management work flow? Explain. (10)

Or

(b) Explain the architecture of semantic web. (16)

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Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 88517

M.Sc. DEGREE EXAMINATION, FEBRUARY 2012.

Elective

Information Technology

DIT 001 – XML AND WEB SERVICES

(Regulation 2007/2009)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List any two advantages of using XML.
2. What are the advantages of using XSL over CSS?
3. What is the difference between webservices and SOA?
4. Justify the statement "Loosely coupled architecture".
5. List the different pages associated with UDDI.
6. Which is the transport protocol used for web services? Why?
7. What is the role of XML in e-learning?
8. Write any two role of XML in web applications.
9. List the need for 'semantic web'.
10. What is a work flow system? List the languages associated with it.

PART B — (5 × 16 = 80 marks)

11. (a) Consider a XML schema Book with the following structure.

Book (ID, Name, author, price, publisher)

(i) Write the DTD for the above schema. (8)

(ii) Using java script validate this XML file. (8)

Or

(b) (i) Write XML schema for the above Book XML file from Q.11(a). (8)

(ii) Write a java program to display all books which costs more than Rs.300. (8)

12. (a) (i) Describe the architecture of SOA. (8)

(ii) Explain web service technology stack. (8)

Or

(b) (i) Compare CORBA and DCOM with SOA. (8)

(ii) List the characteristics of SOA. (8)

13. (a) (i) Consider a web service which takes two float values and returns the average of both values. Write the SOAP request and SOAP response using HTTP POST. (10)

(ii) What is web service policy? Explain it with an example. (6)

Or

(b) (i) Explain the structure of WSDL. (8)

(ii) How are web services discovered? Explain. (8)

14. (a) (i) Explain the components of ebXML. (8)

(ii) Explain the role of web services in mobile devices. (8)

Or

(b) (i) What is Rosetta Net? Explain the role of XML in it. (8)

(ii) List any four vertical industry markup languages and explain. (8)

15. (a) Explain the architecture of semantic web.

Or

(b) (i) Explain the role of RDF schema in semantic web. (8)

(ii) Highlight the features of workflow languages. (8)

Reg. No. : | | | | | | | | | | | |

Question Paper Code : 98517

M.Sc. DEGREE EXAMINATION, AUGUST 2011.

Elective

Information Technology

DIT 001 — XML AND WEB SERVICES

(Regulation 2007/2009)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the advantages of XML over HTML?

2. Highlight the format of X Query.

3. Write any two B2C applications.

4. Define a web service.

5. List the different pages associated with UDDI.

6. How messages are sent to invoke web services? Which transport protocol is associated with it?

7. List any four markup languages and highlight their importance.

8. Justify the need for web services in mobile devices.

9. Define RDF.

10. What are the uses of work flow languages?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain the uses of DTD and XML schema with an example. (8)

(ii) Compare DOM and SAX parsers. (8)

Or

(b) (i) Consider an XML file which has an element called price and assume that the XML document has ten records. Using DOM parser list all the records where the price is more than Rs. 1,000. (8)

(ii) Write an XSL file to display the XML document schema given below in the order of maximum quantity order (number, product, quantity). (8)

12. (a) (i) List the different standards used for implementing web services and highlight the features of each standard. (10)

(ii) Describe the web service technology stack. (6)

Or

(b) (i) What is SOA? Discuss the architecture used for the implementation of SOA. (8)

(ii) Discuss the logical, deployment and process view associated with web services. (8)

13. (a) (i) Describe the anatomy of WSDL. (8)

(ii) How are web services discovered? Explain the steps involved in it. (8)

Or

(b) (i) Explain the structure of SOAP request and SOAP response for a method 'FORECAST' which takes a city name as input and returns a forecast as string. (8)

(ii) How are web services secured? Discuss the security threads associated with web services. (8)

14. (a) (i) Describe the features of ebXML. (8)

(ii) How XML is applied in vertical industry applications? Explain with any two examples. (8)

Or

(b) (i) What is Rosetta Net? Explain its uses. (6)

(ii) Explain the process of creating and consuming a web service in java or .NET environment. (10)

15. (a) (i) Explain the architecture of semantic web. (8)

(ii) Highlight the features of WSFL. (8)

Or

(b) (i) Explain the features of RDF schema, what are the advantages of using it along with web services? (8)

(ii) Explain the role of XML in content management. (8)

Reg. No. : | | | | | | | | | | |

Question Paper Code : 85921

M.Sc. DEGREE EXAMINATION, FEBRUARY 2011.

Elective

Information Technology

DIT 001 — XML AND WEB SERVICES

(Regulation 2007/2009)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is XPath and XLink?

2. List out the advantages of XML over HTML.

3. What are web services?

4. What are the objectives in Business Modeling?

5. What is meant by Web service Inspection?

6. What are the four basic requirements that a web service security layer must provide?

7. Compare B2B and B2C.

8. Name the web services for mobile devices.

9. What is the role of Meta data in web content?

10. What is XLANG?

PART B — (5 × 16 = 80 marks)

11. (a) (i) With simple example explain how the 7 indicators are used in XML Schema? (6)

(ii) Compare DOM and SAX Parser. Write and explain a SAX Parser code to parse any XML file. Write the output of the following XML file (Use SAX parser) (10)

< ? xml version ="1.0"? >

< display >

< *i* > Hello < /*i* > World!

< / display >

Or

(b) (i) Create an employee database using XML. There are 4 fields in the database (Name, SSN No, Salary, Month)

(1) Write a DTD to define the structure of the XML document. Validate the XML document against DTD using parser (i.e. Check the order of the elements and check for the presence of elements) (5)

(2) Write a XSLT to sort the information based on salary. (3)

(ii) Give the VoiceXML architecture. Explain the VoiceXML scenario with example code fragment. (8)

12. (a) (i) Explain the SOA organization of web services and also the key functional components of SOA. (10)

(ii) Discuss the Business motivation for Web Services. (6)

Or

(b) Explain the concept of CORBA and DCOM and provide its limitations. (16)

13. (a) (i) Explain in detail the WSDL document structure with example. (8)

(ii) What is SOAP? What are the building blocks of SOAP? With simple example explain how the request is send to a server and the response is received from the server. (8)

Or

(b) What is UDDI? Give the structure of UDDI and explain the UDDI API functions. (16)

14. (a) (i) Briefly explain the components of E-Business XML Systems. (8)

(ii) Explain in detail about the RosettaNet e-business architecture and its components. (8)

Or

(b) (i) Explain in detail about the ebXML Infrastructure components. (8)

(ii) Discuss in detail, the different types of B2B interactions. (8)

15. (a) Explain in detail the seven layer architecture of Semantic Web. (16)

Or

(b) (i) Discuss the concepts in RDF Data model? (8)

(ii) What are the validities in RDF Schema? Explain how it accomplishes these validity constraints. (8)

Reg. No. : | | | | | | | | | | | |

Question Paper Code : GG 3524

M.Sc. DEGREE EXAMINATION, AUGUST 2010.

Elective

Information Technology

DIT 001 — XML AND WEB SERVICES

(Regulation 2007/2009)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define XML Schema.

2. State the benefits of XML over HTML and DHTML.

3. What is P2P? Give example.

4. Give the limitations of CORBA.

5. Specify the way in which SOAP differ from RMI and DCOM.

6. Write the usage of WSDL.

7. What is EDI? Give its types.

8. What is RDF container?

9. What is semantic web?

10. Mention the web services used in mobile devices

PART B — (5 × 16 = 80 marks)

11. (a) (i) What is DOM? Explain. (6)

(ii) Explain about software revolution of XML. (10)

Or

(b) (i) What is DTD? Give its structure. (6)

(ii) Explain the CSS and XSL technologies. (10)

12. (a) (i) Specify the concept used in B2B and B2C. (6)

(ii) Explain the SOA with an example. (10)

Or

(b) (i) What is web service technology stack? Explain. (6)

(ii) Explain the working of P2P application server. (10)

13. (a) (i) Discuss the importance of SOAP. (6)

(ii) Explain SOAP message structure with an example. (10)

Or

(b) (i) Compare public and private registries. (6)

(ii) Explain the structure of WSDL documents. (10)

14. (a) (i) What is ebXML? Explain. (6)

(ii) Explain the various types of B2B interactions. (10)

Or

(b) (i) What is RosettaNet? Explain. (6)

(ii) Explain the components of ebusiness XML system. (10)

15. (a) (i) What is content management work flow? Explain. (6)

(ii) Explain the various components of RDF. (10)

Or

(b) (i) What is meta data? Explain. (6)

(ii) Explain the architecture of semantic web. (10)

Reg. No. : | | | | | | | | | | | |

Question Paper Code : YY 3530

M.Sc. DEGREE EXAMINATION, FEBRUARY 2010.

Elective

Information Technology

DIT 001 — XML AND WEB SERVICES

(Regulation 2007)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the limitations of DTD?

2. Write down the format for X query.

3. What is peer to peer environment?

4. Name any two B2B applications.

5. Justify the statement "Loosely coupled architecture".

6. What is the link between UDDI and WSDL?

7. What are the advantages of using XML in e-business?

8. Name any two web services offered through mobile devices and highlight their features.

9. What is a meta data in web content?

10. What is a workflow system?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Compare XML with HTML (6)

(ii) What is EDI? Why is it used? (4)

(iii) Compare DOM and SAX. (6)

Or

(b) (i) Write XML scheme for the following. (10)

Music CD-ID	Category			Quantity	Company	
	Type	Name	Cost		Name	Singer

(ii) Describe the possible presentation technologies associated with XML. (6)

12. (a) (i) Compare tightly coupled architecture standard. (10)

(ii) Describe the features of SOA. (6)

Or

(b) (i) Describe the web service technology stack. (8)

(ii) Explain the logical, deployment and process view of web services. (8)

13. (a) List the building blocks of web services and explain their features. (16)

Or

(b) (i) List the transport protocols used for web services. Explain the role of SOAP in it. (8)

(ii) Describe the anatomy of UDDI. (8)

14. (a) (i) Explain ebXML and its issues. (8)

(ii) Name any four markup languages and highlight their features. (8)

Or

(b) Discuss the implementation of web services with suitable example in java and .NET.

15. (a) (i) Highlight the features of RDF. (8)

(ii) What is an ontology? Explain its uses with an example. (8)

Or

(b) (i) Explain the various workflow standards. (10)

(ii) Discuss the security features supported in XML. (6)
