

B.E/B.TECH DEGREE EXAMINATIONS: NOV/DEC 2014

(Regulation 2009)

Seventh Semester

ITY116 : XML AND WEB SERVICES

(Common to CSE/IT)

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Abbreviation of SOAP is
 - a) Single Object Access Protocol
 - b) Structure Oriented Access Protocol
 - c) Simple Object Access Protocol
 - d) Synchronous Object Access Protocol
2. Web services =
 - a) provider+client+service
 - b) repository+client+provider
 - c) repository+data+provider
 - d) security+client+provider
3. XPath is used to
 - a) Select the element nodes only
 - b) Select the text nodes only
 - c) Select the attribute nodes only
 - d) Select different types of nodes
4. Which one allows the pagination, layout and style of an XML document?
 - a) XML-FO
 - b) XSLT-FO
 - c) XSL-FO
 - d) XLink-FO
5. The attribute used to specify process/ignore the SOAP message is
 - a) shouldUnderstand
 - b) mayUnderstand
 - c) mustUnderstand
 - d) willUnderstand
6. SOAP intermediaries may be explicitly specified in
 - a) SOAP Body
 - b) SOAP Envelope
 - c) SOAP Fault
 - d) SOAP Header
7. WSDL is built around
 - a) Interface Definition Language
 - b) Intranet Definition Language
 - c) Interlock Definition Language
 - d) Internet Definition Language

8. The different pages used in UDDI are
 - a) Red, Yellow, Green
 - b) White, Yellow, Green
 - c) Black, White, Yellow
 - d) Red, Green, Black
9. Public key cryptography uses
 - a) A single key
 - b) More than two keys
 - c) Two keys
 - d) More than three keys
10. Which is not a step of XML Canonicalization?
 - a) Normalizing white space
 - b) Normalizing attribute values
 - c) Normalizing line breaks
 - d) Normalizing name of the tags

PART B (10 x 2 = 20 Marks)

11. Define SOA.
12. Give the advantages of XML.
13. Draw the different options for using CSS and XSL to create displays based on HTML and XML.
14. Differentiate between DOM and SAX.
15. Mention the details of information included in a SOAP Fault.
16. Specify the mechanism used to attach different type of documents in SOAP.
17. State the purpose of port types and operations in WSDL.
18. List the several technology components used in .NET architecture.
19. Give the three basic security requirements for e-business.
20. Write the parts of XKMS.

PART C (5 x 14 = 70 Marks)

21. a) Give the overview of three revolutions of XML and explore the data revolution in which XML is playing a major role..

(OR)

- b) Sketch and explain the overview of Service Oriented Architecture and Specify the benefits of it.

22. a) Create an XML document for storing the details of an address book. Also provide its DTD for validating it.

(OR)

- b) (i) Demonstrate the use of XSLT with a suitable example. (7)
- (ii) How do you select all titles of Law books catalog published by the Eastern Book (7)

Company after 2006 using XQuery?

23. a) (i) How does SOAP differ from CORBA, RMI and DCOM in various aspects? (5)
(ii) With a neat diagram, illustrate the way of handling XML-RPC request and returning responses in XML-RPC over HTTP to trigger the execution of a procedure? (9)

(OR)

- b) (i) Illustrate the structure of a SOAP message. (5)
(ii) Explore the way of sending a SOAP request and returning a SOAP response in an online book company. (9)

24. a) (i) State the pros and cons of web services. (5)
(ii) Summarize the risks in implementing web services. (9)

(OR)

- b) Mention the building elements of ebXML technical architecture and elaborate the steps in an ebXML-driven business process.

25. a) Provide the XML security architecture and write the way of encrypting XML documents.

(OR)

- b) (i) Specify the issues in encrypting or digitally signing the XML documents due to the rules of XML (5)
(ii) Elaborate the significance of various elements used in XML digital signature. Specify the steps that must be carried out in XML Signature generation. (9)
