LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION –COMPUTER APPLICATIONS

FOURTH SEMESTER – APRIL 2018

16PCA4MC01– XML AND WEB SERVICES

Date: 18-04-2018   Dept. No.   Max. : 100 Marks
Time: 01:00-04:00

PART-A

Answer ALL the questions   10*2=20

1) Fill in the table below with correct response for the given content models.

CONTENT MODELS	Mixed	Complex	Simple	Empty
Child elements			No	
Child text		No	Yes	No

2) What is XPath?

3) DOM manipulates XML document. – Justify.

4) Name the technology layers in XML standards stack.

5) Mention the basic security requirements provided by a web service security layer.

6) What is the difference between a web service and a web page?

7) Bring out the drawbacks of IIOP and ORPC over SOAP.

8) Mention the infrastructure components of ebXML.

9) Does Digital signature of a person remain the same for all documents? Justify your answer.

10) What is XKRSS?

PART-B

Answer ALL the questions   5*8=40

11) a) Explain XPath number and string functions.

(or)

 b) Give an explanation on conditional formatting of data in XML using XSLT.

12) a) Explain the role of XML in content-management.

(or)

b) Describe SAX.

13) a) Explain Service Oriented Architecture.

(or)

b) Explain the logical architectural view.

14) a) Elucidate SOAP faults.

(or)

b) Draw and describe WSDL – UDDI mapping.

15) a) Describe the steps to convert XML into a canonical form.

(or)

b) Explain REST.

PART-C

Answer any TWO questions.   **2*20=40**

16) a) Give an explanation on types of DTD with examples   **(10)**

    b) Explain grouping elements in XSD.   **(10)**

17) Describe the following:

      a) Components of content management work flow.   **(10)**

      b) Web service technology stack.   **(10)**

18) a) Explain UDDI.   **(10)**

    b) Describe the role of public key cryptography in ensuring authentication, confidentiality and data integrity.   **(10)**

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