Name: Enrolment No:	UPES UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2019

Course: XML Programming **Semester: IV**
Program: BTech CSE GG **Time 03 hrs.**
Course Code: CSEG 3011 **Max. Marks: 100**

Instructions:Attempt all Questions.

SECTION A

S. No.		Marks	CO
Q 1	Write an XML code for Library?	**5**	**CO1**
Q 2	Compare DOM and SAX parsers?	**5**	**CO1**
Q 3	What are 5 pre-defined entity references in XML?	**5**	**CO2**
Q 4	Write brief note on XML-related Language that which helps in manipulating and transforming XML documents?	**5**	**CO4**
	SECTION B		
Q 5	Differentiate between XML XSD and DTD. Explain in detail various indicators in XSD with example?	**10**	**CO3**
Q 6	Explain CSS syntax.What are two types of selectors in CSS.Explain color attribute in CSS with example?	**10**	**CO5**
Q 7	Demonstrate step by step how AJAX works? Also create an XMLHttpRequest . Describe various XMLHttpRequest Object Properties?	**10**	**CO5**
Q 8	What is the function of XPATH? Illustrate various path expression used. What these XPath describes :- /library/book[last()] and //title[@category='cs'] OR What is the use of XSLT?Explain <xsl:template> element and show how it is used. Write xml for the student details and then make an XSLT file to show its data in the proper table format in the browser.	**10**	**CO2,CO4**

	SECTION-C		
Q 9	Describe Web service architecture with respect to various roles and operations? Differentiate between SOAP ,WSDL and UDDI?	**20**	**CO4**
Q 10	Create an XML Schema for the following XML document.Also explain the concept of 'ref 'attribute? OR Create an XML DTD for the following XML document? Also explain attribute values and Entity declarations in DTD. <?xml version="1.0" encoding="UTF-8"?> <orderdelivery orderid="12345" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="orderdelivery.xsd"> <orderbooker>Sachin</orderbooker> <deliverto> <name>Ramesh</name> <address>Vasant Vihar</address> <city>Dehradun</city> <country>India</country> </deliverto> <itemdetails> <title>giftitem</title> <note>happybirthday</note> <quantity>1</quantity> <price>200</price> </itemdetails> <itemdetails> <title>shoes</title> <quantity>1</quantity> <price>999</price> </itemdetails> </orderdelivery>	**20**	**CO3**

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SECTION A

S. No.		Marks	CO
Q 1	Write an XML code for Stock management?	5	CO2
Q 2	What do you understand by UTF and standalone in XML ?	5	CO1
Q 3	XML elements are extensible? Explain	5	CO1
Q 4	Explain the usage of XML in e-commerce?	5	CO4
	SECTION B		
Q 5	What are advantage of XML XSD over DTD. Explain in detail various attribute restriction in XSD with example?	10	CO3
Q 6	List some the advantages of CSS? Use the attributes Font, Text, Color and Background in CSS ?	10	CO5
Q 7	Describe AJAX?How to send a request to server and receive response from server in AJAX ?	10	CO5

<table>
<tr><td>Q 8</td><td>What is the function of XPATH?Explain <xsl:template> element and show how it is used. Write xml for the student details and then make an XSLT file to show its data in the proper table format in the browser.
OR
What are the constituents of XSLT? Illustrate various path expression used. What these XPath describes :-
/bookstore/book[last()] and //title[@author='ind']</td><td>10</td><td>CO2,CO4</td></tr>
<tr><td colspan="4">SECTION-C</td></tr>
<tr><td>Q 9</td><td>Explain Service register ,Service requester and Service provider with respect to web service models?Also explain the link between them.
Explain in detail SOAP ,WSDL,UDDI with example?</td><td>20</td><td>CO4</td></tr>
<tr><td>Q 10</td><td>
<table>
<tr><td>Element Name</td><td>Attributes and Characteristics</td></tr>
<tr><td>course ==></td><td>Required: subject, courseNumber, title

Optional: externalId, approvalType, permanentId, previousSubject, previousCourseNumber

approvalType = instructor, department or timeblock

creditFormat = arrangeHours, fixedUnit, variableMinMax, variableRange

creditType = collegiate, equivalent, mastersCredit, phdThesisCredit

designatorRequired = T or F
fractionalCreditAllowed = T or F</td></tr>
<tr><td>Sub element of course:

courseCredit ==></td><td>Required: creditType, creditUnitType, creditFormat, fixedCredit (minimumCredit, maximumCredit, fractionalCreditAllowed)</td></tr>
<tr><td>Sub element of course:

subpartCredit ==></td><td>[0 ==> N entries]

Required: subpartId, creditType, creditUnitType, creditFormat, fixedCredit(minimumCredit,maximumCredit or fractionalCreditAllowed)</td></tr>
</table>
a. For the above data describe an external DTD and xml file for various courses taught by an organization. Or

b. For the above data describe a Schema and xml file for various courses taught by an organization.</td><td>20</td><td>CO3</td></tr>
</table>