Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES **End Semester Examination, December 2018**

XML Programming

Course: Semester: V Programme: B.Tech. CSE(OSSOS) **Course Code: CSEG359**

Times 03 hrs May Marks, 100

03 hrs. Max. Marks: 100				
tions: Attempt All the question.				
SECTION A				
	Marks	CO		
What is AJAX? Explain its ready states with example.	4	CO5		
Discuss four important technologies used in creating a web service.	4	CO5		
What do you understand with B2C communication?	4	CO5		
How to store binary data in XML? Explain with example.	4	CO4		
Differential SAX Parser with DOM.	4	CO2		
SECTION B	-	002		
Define and Implement notations using external and internal DTD in XML.	10	CO3		
Exemplify the non-XML data. How are NOTATIONS implemented in XML? Explain with an XML example.	10	CO2		
a) What is CSS? How it is useful for markup languages. Elaborate with examples.b) Discuss about document prolog.	7+3	CO4 & CO1		
Differentiate any <i>two</i> of the following with example: a) XML template vs XML value b) Selector vs Indicator c) WSDL vs UDDI d) HTML vs XHTML	5+5	CO1, CO3 & CO4		
SECTION-C				
Create library.xml file with the following constraints: a. Library has book and member details i. More than one book and member is possible b. Books has the following elements i. id ii. name iii. author iv. ISBN **Rastrictions**	4+6 +10	CO3 & CO4		
	What is AJAX? Explain its ready states with example. Discuss four important technologies used in creating a web service. What do you understand with B2C communication? How to store binary data in XML? Explain with example. Differential SAX Parser with DOM. SECTION B Define and Implement notations using external and internal DTD in XML. Exemplify the non-XML data. How are NOTATIONS implemented in XML? Explain with an XML example. a) What is CSS? How it is useful for markup languages. Elaborate with examples. b) Discuss about document prolog. Differentiate any trop of the following with example: a) XML template vs XML value b) Selector vs Indicator c) WSDL vs UDDI d) HTML vs XHTML SECTION-C Create library.xml file with the following constraints: a. Library has book and member details i. More than one book and member is possible b. Books has the following elements i. id ii. name iii. author	SECTION A Marks		

	ISBN number can be possible.		
	c. Member has the following elements i. id ii. password iii. name iv. age v. email vi. phoneNumber vii. panNumber viii. passportNumber **Restrictions:* • id, password, name, age fields are mandatory • email is optional. maximum one email is allowed • more than one phoneNumber) either this or that is allowed only		
	oncehightlight emailId, name and author with different color		
	Create the XML document for at least 5 books and 5 members. Check the XML document for well formness. Use proper XSD declaration.		
Q 11	Discuss the following with examples wherever it require: a) Predicates used in XPath with example. OR XML name space. b) Encoding schemes used in XML OR Binary Embedding c) W3C standard OR SOAP	5+5 +5+5	CO2 & CO4
	d) Mixed content type OR Xslt		

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Name of Examination (Please tick, symbol is given)	:	MID		END	Н	SUPPLE	
Name of the School (Please tick, symbol is given)	:	SOE		socs	H	SOP	
Programme	:	B.Tech	CSE (OSS	&OS)			
Semester	:	v					
Name of the Course	:	XML Pro	gramming				
Course Code	:	: CSEG 359					
Name of Question Paper Setter	:	Amit Sin	Amit Singh				
Employee Code	:	4000167	7 2				
Mobile & Extension	:	8290727	7943				
Note: Please mention addit Table/Graph Sheet etc. else			= =		ring exam	ination suc	h as
	F	OR SRI	E DEPAR	TMENT			
Date of Examination			:				
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Note: - Pl. start your question paper from next page

Model Question Paper (Blank) is on next page

Name:	UPES
Enrolment No:	UPE3

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2018

Course: XML Programming Semester: V

Programme: B.Tech. CSE+OSSOS CSEG 359

Time: 03 hrs. Max. Marks: 100

Instructions: Attempt All the question.

	SECTION A		
S. No.		Marks	CO
Q 1	What is Schema? How we can implement it in XML?	4	CO3
Q 2	Discuss four important technologies used in creating a web service.	4	CO5
Q 3	What do you understand with B2B communication?	4	CO5
Q 4	What is binary encoding and binary embedding in XML?	4	CO4
Q 5	Explain different type of XML parsers.	4	CO2
	SECTION B		
Q 6	Define and Implement notations using XSD in XML.	10	CO3
Q 7	Characterize and categories ENTITY in XML with example of each.	10	CO2
Q 8	a) What is CSS? How it is useful for markup languages. Elaborate with examples.b) Discuss about the validation of XML file.	7+3	CO4 & CO1
Q 9	Explain any <i>two</i> of the following with example a) Indicators b) Selectors c) XML application d) CSS Typography	5+5	CO1, CO3 & CO4
	SECTION-C		
Q 10	Create library.xml file with the following constraints: a) Library has book and member details i. More than one book and member is possible b) Books has the following elements i. id ii. name iii. author iv. ISBN Restrictions: • id, name, author are mandatory fields. More than one author and ISBN number can be possible.	4+6 +10	CO3 & CO4
	c) Member has the following elements i. id ii. password		

			1
	iii. name		
	iv. age		
	v. email		
	vi. phoneNumber		
	vii. panNumber		
	viii. passportNumber		
	Restrictions:		
	 id, password, name, age fields are mandatory 		
	 email is optional. maximum one email is allowed 		
	• more than one phoneNumber is allowed.		
	• (passportNumber, panNumber) either this or that is allowed only		
	once		
	hightlight emailId, name and author with different color		
	Create the XML document for at least 5 books and 5 members. How to check the		
	XML document for well formness. Use proper XSD declaration.		
Q 11	a) Write a program using XML and XSL to show the use of for loop and		
	sorting.		
	OR		
	Write a program to demonstrate xsl in XML.		
	b) Is XML meant to be a replacement of HTML? Explain.		
	OR		
	How is Display and Visibility handled in XML?		
	c) Make a food menu card of a restaurant in XML with restriction of minimum		
	quantity of each item ordered by the customer. Soup is complementary with		
	food item. Free delivery is also available with minimum order of 500 INR.		
	OR		
	Create XML document that hold information about people at UPES. The root		001
	element should be called "UPESpeople" and it should contain separate	5+5	CO1
	elements for students, faculty and staff in any order.	+10	&
			CO4
	Student elements should have required enrollment number attribute that is		
	identified as an ID. Student should also have an attribute indicating their		
	current class standing. This should be required and one of the following:		
	freshman, sophomore, junior, senior, grad, unclassified. The student element		
	should contains the following elements (in order)		
	a) Name b) Address (with a required attribute indicating if level or permanent)		
	b) Address (with a required attribute indicating if local or permanent)		
	there may be one or more of these and you may define child element		
	c) Phone Number (zero or more with an optional attribute indicating local, permanent, mobile)		
	, , ,		
	d) E-mail address (one or more)		