Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2022

Course: XML Programming
Program: Btech OSS
Course Code: CSEG3011
Semester: 6th
Time: 03 hrs.
Max. Marks: 100

Instructions:

SECTION A

S. No.		Marks	CO
Q 1	Explain the functioning of the following datatypes: a) maxInclusive b) White space c) Pattern d) minExclusive	4	CO3
Q2	Draw the tree structure for the following		
	<pre><bookstore></bookstore></pre>	4	CO2
Q3	Describe the properties of the following : a) void send() b) responseXML	4	CO4
Q4	Define the major elements of WSDL	4	CO5
Q5	Explain the replacement entity for each symbol in XML: a) > b) < c) & d) "	4	CO1

		SECTION B		
Q6	Explain briefly how AJAX	allow send and receive data over the internet.	10	CO4
Q7	Explain the concept of SOAP and why is it used		10	CO5
Q8	Compare and contrast how XSD is much better than DTD and give an example to justify the answer		10	CO3
Q9	Describe why XML needs a parser with the help of a neat diagram. OR			
Illustrate the following with the help of the code:a) Design the restriction to remove white spacesb) Set the restrictions for forming a pattern with lower case alphabet followed by upper case alphabet.				CO2
		SECTION-C	1	
Q 10	Describe the working principle of AJAX in extracting XML documents from any web page .Justify with the help of a diagram.		20	COS
	a) video channels b) Mathematics c) Multimedia d)Open source OR Consider the details of students given below:			
		ents given below: Attributes and Characteristics		
	Consider the details of stud	ents given below:		
	Consider the details of stud Element Name student	ents given below: Attributes and Characteristics Required: externalId, firstName, lastName Optional: middleName, email		
	Consider the details of stud Element Name student studentAcadAreaClass	<pre>ents given below: Attributes and Characteristics Required: externalId, firstName, lastName Optional: middleName, email [1 ==> N entries]</pre>		
	Consider the details of stud Element Name student studentAcadAreaClass acadAreaClass	<pre>ents given below: Attributes and Characteristics Required: externalId, firstName, lastName Optional: middleName, email [1 ==> N entries] Required: academicArea, academicClass</pre>		
	Consider the details of stud Element Name student studentAcadAreaClass	<pre>ents given below: Attributes and Characteristics Required: externalId, firstName, lastName Optional: middleName, email [1 ==> N entries]</pre>		
	Consider the details of stud Element Name student studentAcadAreaClass acadAreaClass studentMajors	<pre>ents given below: Attributes and Characteristics Required: externalId, firstName, lastName Optional: middleName, email [1 ==> N entries] Required: academicArea, academicClass [1 ==> N entries]</pre>		
	Consider the details of stud Element Name student studentAcadAreaClass acadAreaClass studentMajors major	<pre>ents given below: Attributes and Characteristics Required: externalId, firstName, lastName Optional: middleName, email [1 ==> N entries] Required: academicArea, academicClass [1 ==> N entries] Required: academicArea, code [0 ==> N entries] Required: academicArea, code</pre> [0 ==> N entries] Required: academicArea, code		
	Consider the details of stud Element Name student studentAcadAreaClass acadAreaClass studentMajors major studentMinors	<pre>ents given below: Attributes and Characteristics Required: externalId, firstName, lastName Optional: middleName, email [1 ==> N entries] Required: academicArea, academicClass [1 ==> N entries] Required: academicArea, code [0 ==> N entries]</pre>		
	Consider the details of stud Element Name student studentAcadAreaClass acadAreaClass studentMajors major studentMinors minor	<pre>ents given below: Attributes and Characteristics Required: externalId, firstName, lastName Optional: middleName, email [1 ==> N entries] Required: academicArea, academicClass [1 ==> N entries] Required: academicArea, code [0 ==> N entries] Required: academicArea, code [0 ==> N entries] Required: academicArea, code [0 ==> N entries] Required: group</pre>		
	Consider the details of stud Element Name student studentAcadAreaClass acadAreaClass studentMajors major studentMinors minor	<pre>ents given below: Attributes and Characteristics Required: externalId, firstName, lastName Optional: middleName, email [1 ==> N entries] Required: academicArea, academicClass [1 ==> N entries] Required: academicArea, code [0 ==> N entries] Required: academicArea, code [0 ==> N entries] Required: academicArea, code [0 ==> N entries]</pre>		
	Consider the details of stud Element Name student studentAcadAreaClass acadAreaClass acadAreaClass studentMajors major studentMinors minor studentGroups	<pre>ents given below: Attributes and Characteristics Required: externalId, firstName, lastName Optional: middleName, email [1 ==> N entries] Required: academicArea, academicClass [1 ==> N entries] Required: academicArea, code [0 ==> N entries] Required: academicArea, code [0 ==> N entries] Required: academicArea, code [0 ==> N entries] Required: group</pre>		

For the data describe an external DTD and xml file for various students		
	For the data describe an external DTD and xml file for various students	