Total No. of Questions: 6

Total No. of Printed Pages: 3

Enrollment No.....



Faculty of Engineering

End Sem (Even) Examination May-2022 CS3EL08 Programming with XML

Programme: B.Tech. Branch/Specialisation: CSE

Duration: 3 Hrs. Maximum Marks: 60

	_	uestions are compulsory. Interest should be written in full inste	rnal choices, if any, are indicated. Answeread of only a, b, c or d.	rs o			
Q.1	i.	What does XML stand for? (a) Extra Modern Link (b) Extensible Markup Lang (c) Example Markup Langua (d) X-Markup Language		1			
	ii.	Is it easier to process XML than HTML?		1			
		(a) Yes	(b) No				
		(c) Sometimes	(d) Cannot say				
	iii.	What does DTD stand for?		1			
		(a) Direct Type Definition	(b) Document Type Definition				
		(c) Do the Dance	(d) Dynamic Type Definition				
	iv.	The use of a DTD in XML d	levelopment is:	1			
		(a) Required when validating	g XML documents				
		(b) No longer necessary after	er the XML editor has been customized				
		(c) Used to direct conversion	n using an XSLT processor				
		lating a template to be filled in when					
		generating an XML document automatically					
	v.	The default model for complete	lex type, in XML schemas for element is-	1			
		(a) Text Only	(b) Element Only				
		(c) No default type	(d) Both (a) and (b)				
	vi.	A schema describes-		1			
		(a) Grammar					
		(b) Vocabulary					
		(c) Structure and data type o	f document				
		(d) All of these					
			рт	\cap			

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	vii.	vii. To match the root node in XMLT transform the syntax will be-			
		(a) <xsl:template match="Document"></xsl:template>			
		(b) <xsl:template match="Root"></xsl:template>			
		(c) <xsl:template match="Re</td><td>ootNode"></xsl:template>			
		(d)			

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OR	iii.	How can we transform XSL with XSLT? Explain with the help of	(
		suitable example.	

Q.6 Attempt any two:

- i. What do you mean by XPath? Explain how XPath is used to 5 navigate XML document.
- ii. How to create the XML file for student information? Apply the validation, schema and XSLT for the created file and display the student information in browser
- iii. What are the uses of predicates? Also explain the different condition 5 for using the predicates in XPath.

Marking Scheme

CS3EL08 Programming with XML

		020 = 1 0 g 1 w 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Q.1	i.	What does XML stand for?		1		
		(b) Extensible Markup Language				
	ii.	Is it easier to process XML than HTML?		1		
		(a) Yes				
	iii.	What does DTD stand for?		1		
		(b) Document Type Definition		1		
	iv.	The use of a DTD in XML development is:				
		(a) Required when validating XML documents The default model for complex type, in XML schemas for element is-				
	v. The default model for complex type, in XML schemas for element i					
		(b) Element Only		1		
	vi.	A schema describes-		1		
	::	(d) All of these	4 ' 11 1	1		
	vii.	To match the root node in XMLT transform the	syntax will be-	1		
	:::	(d) <xsl:template match="/"> The VSL formatting chiest was to format a list in</xsl:template>		1		
	viii. The XSL formatting object use to format a list is-					
	ix.	(a) List-block Location path in XPath is-		1		
	IA.	(c) Both (a) and (b)		1		
	х.	Operators in X Path are?		1		
	21.	(d) All of these		-		
		(4) 1 111 01 111000				
Q.2	i.	XML definition	2 Marks	2		
	ii.	Three point difference	3 Marks	3		
	iii.	XML validation and example	2.5 Marks each	5		
		-	(2.5 Marks*2)			
OR	iv.	Explanation of element and attributes	2.5 Marks each	5		
			(2.5 Marks*2)			
Q.3	i. Empty elements and number of occurrences in DTD					
			2 Marks			
	ii.	DTD	2 Marks	8		
		Advantage	3 Marks			
		Disadvantages	3 Marks			
OR	iii.	External DTD creation and linking process	4 Marks each	8		
			(4 Marks*2)			

Q.4	i.	Schema definition	3 Marks	3
	ii.	Proper explanation	3.5 Marks each (3.5 Marks*2)	7
OR	iii.	Create the XML schema for notebook	3 Marks	7
		Linking and validating it with XML file.	4 Marks	
Q.5	i.	XSL	2 Marks	4
		Layout and templates	2 Marks	
	ii.	Proper explanation and output generation.	6 Marks	6
OR	iii.	Transformation	4 Marks	6
		Example.	2 Marks	
Q.6	-)	Attempt any two:		
	i.	XPath and navigation	2.5 Marks each	5
			(2.5 Marks*2)	
	ii.	XML creation	2 Marks	5
		Validation, schema and XSLT	3 Marks	
	iii.	Predicate use and condition	2.5 Marks each	5
			(2.5 Marks*2)	
