Total No.	of Questions:	6
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Total No. of Printed Pages:2

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Faculty of Engineering End Sem Examination May-2023

CS3EL08 Programming with XML Programme: B.Tech. Branch/Specialisation: CSE All

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of ta if

_		Qs) should be written in full in . Notations and symbols have	•	d. Assume suitable d	ata
Q.1	i.	What is the correct syntax of the declaration which defines the XML version?		n defines the XML	1
		(a) <xml version="A.0"></xml>	(b) xml version="A</td <td>A.0"?></td> <td></td>	A.0"?>	
		(c) xml version="A.0" /	(d) None of these		
	ii.	An entity in XML is a			1
		(a) Class	(b) Logical informati	on	
		(c) Simple information	(d) Flexible informat	ion storage unit	
	iii.	DTD includes the specificat	tions about the mark-	up that can be used	1
		within the document, the specifications consist of all EXCEPT-			
		(a) The browser name	(b) The size of eleme	ent name	
		(c) Entity declarations	(d) Element declarati	ons	
	iv.	Attribute standalone="no" sl	hould be included in X	KML declaration if a	1
		document-			
		(b) Has external general refe	rences		
		(c) Has processing instructio	ns		
		(d) Has an external DTD			
	v.	In simple type built into XM	IL schema type flat ha	s single precision of	1
		floating point			
		(a) 16-bit (b) 32-bit	(c) 8-bit	(d) 4-bit	
	vi.	To create a choice in XML schemas, we use the-			1
		(a) <xsd:select> element</xsd:select>	(b) <xsd:multi> elem</xsd:multi>	ent	
		(c) <xsd:choice> element</xsd:choice>	(d) <xsd:single> elen</xsd:single>	nent	
	vii.	The XSL formatting object u	ise to format a list is-		1
		(a) List-block (b) List-item	(c) List-item-body	(d) List-item-label	

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		Viii.	XSL has formatting object "block"-	1
			(a) Is not supported in XSL	
			(b) Generates a block level reference area	
			(c) Create a display block	
			(d) Groups global declarations for a style sheet	
		ix.	Which of these are built on XPath expressions?	1
			(a) XLink and XPointer (b) XQuery and XPath	
			(c) XQuery and XPointer (d) XQuery and XLink	
		х.	Which of these are not valid path expressions of XPath?	1
			(a) / (b) // (c) @ (d) \$	
	Q.2	i.	Define Structure of XML.	1
	Q.2			3
		ii. :::	Define element and attribute in an XML document with example.	5
		iii.	What are the benefits of XML? Explain the basic rules to write XML document.	3
	OR	iv	Describe the differences between XML and HTML.	5
	OK	IV.	Describe the differences between AML and ITTML.	٥
	Q.3		Attempt any two:	
		i.	Explain the creation of external DTD with example.	5
		ii.	Explain briefly DTD.	5
		iii.	Write the pros and cons of using DTD.	5
	Q.4	i.	What are the benefits of using XML Schema?	2
			Enlist the datatypes in an XML schema. Define the terms attributes,	8
			restrictions in XML schema with example.	
	OR	iii.	Explain briefly XML Schema with the help of any example.	8
	Q.5	i.	Write any three differences between XSLT and CSS.	3
	Q.5	ii.	How to transform an XML file into html using XSL transformation	
		11.	(XSLT)?	,
	OR	iii.	What is identity template in XSL? Why do you use it? Explain with	7
	on	111.	example.	,
			1	
	Q.6	i.	Enlist the any four features of XPath.	4
	`	ii.	Explain different types of operators in XPath with example.	6
	OR	iii.	Enlist the types of nodes in XPath. How to define relationship among	6
			nodes?	

Marking Scheme

CS3EL08 [T] Programming with XML

Q.1	i.	What is the correct syntax of the declaration which defines the XML version?	1
		A. <xml version="A.0"></xml> B. xml version="A.0"?	
		C. xml version="A.0" / D. None of the above	
		Ans: B (xml version="A.0"?)	
	ii.	An entity in XML is a	1
		A) class B) logical information	
		C) simple information D) flexible information storage unit	
		Ans: D (flexible information storage unit)	
	iii.	DTD includes the specifications about the mark-up that can be	1
		used within the document, the specifications consists of all	
		EXCEPT	
		A. the browser name B. the size of element name	
		C. entity declarations D. element declarations	
	iv.	Ans: A (the browser name) Attribute standalone="no" should be included in XML declaration	1
	IV.	if a document:	1
		A. is linked to an external XSL stylesheet	
		B. has external general references	
		C. has processing instructions	
		D. has an external DTD	
		Ans: D (has an external DTD)	
	v.	In simple type built into XML schema type flat has single	1
		precision of floating point	
		A. 16-bit B. 32-bit C. 8-bit D. 4-bit	
		Ans: C (8-bit)	
	vi.	To create a choise in XML schemas, we use the	1
		A. <xsd:select> element B. <xsd:multi> element</xsd:multi></xsd:select>	
		C. <xsd:choise> element D. <xsd:single> element</xsd:single></xsd:choise>	
		Ans: C (<xsd:choise> element)</xsd:choise>	
	vii.	The XSL formating object use to format a list is	1
		A. list-block B. list-item C. list-item-body D. list-item-label	
	viii.	Ans: A (list-block) VSI has formatting abject "block"	1
	VIII.	XSL has formatting object "block" A. is not supported in XSL	1
		B. generates a block level reference area	
		C. create a display block	
		D. groups global declarations for a style sheet	
		Areade Aread manifestations for a primary	

	Ans: B (generates a block level reference area)	
ix.	Which of these are built on XPath expressions?	1
	A. XLink and XPointer	
	` ·	
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	1113. D (0)	
i.	Define 2 Marks	2
ii.		3
iii.		5
		5
	One Manage Even	`
i.	Explain (2 Marks) Example 3 Marks	2
		5
		5
	(2.6 p. 6.6)	
i.	2 benefits one marks each	2
ii.	5 Marks datatype 3 marks	8
iii.	• •	8
	•	
i.	One Marks each	3
ii.	Step & example	7
iii.	•	7
	Attempt any two:	
i.	One Each	4
ii.	At least 3 operators + 3example	6
iii.	Enlist at least 4 types-4, define relationship 2	6
	x. i. ii. iii. iii. iii. iii. iii. iii	A. XLink and XPointer B. XQuery and XPointer B. XQuery and XPointer D. XQuery and XLink Ans: C (XQuery and XPointer) X. Which of these are not valid path expressions of XPath? A. / B. // C. @ D. \$ Ans: D (\$) i. Define 2 Marks ii. Element & Attributes (1.5 each) iii. 2 Marks benefits ,3 marks Rules iv. One Marks Each i. Explain (2 Marks) Example 3 Marks ii. Define iii. (2.5 pros) (2.5 corns) i. 2 benefits one marks each ii. 5 Marks datatype 3 marks iii. 3 Marks Schema 5 marks example i. One Marks each ii. Step & example iii. What 2, why 3,Explain 2 Attempt any two: i. One Each ii. At least 3 operators + 3 example
