UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2021

Course: XML Programming   Semester: VI
Program: B.Tech. CSE+OSS   Time : 03 hrs.
Course Code: CSEG3011   Max. Marks: 100

Instructions:

SECTION A

S. No.		Marks	CO
Q 1	What is Mark up ? What is the need of mark up languages?	5	CO1
Q 2	Define the advantages and disadvantages of HTML.	5	CO1
Q 3	What do you mean by XML references ,describe with examples?	5	CO1
Q 4	Define the reserved characters in XML.	5	CO1
Q 5	Describe the components of XML declaration in details.	5	CO2
Q 6	How to define an XML element ? Also describe its rules.	5	CO2

SECTION B

Q 1	Define and use a .CSS file for styling and displaying XML file.	10	CO4
Q 2	Make a simple Ajax program to retrieve and print the data of a XML file in a html table on clicking a button.	10	CO5
Q 3	Convert and display the data of a XML file into a HTML file using XSLT.	10	CO4
Q 4	Explain XMLHttpRequest Object and its properties and operations. ?	10	CO5

Q 5	Describe the various predicates used in XPath? What does following XPath describes :-
	   1. //Student[@country='IN']
	   2. /organisations/company[basic_salary>15000]/employee
		10	CO2

SECTION-C

Q 1	Element Name	Parent Element	Attributes and Characteristics	20	CO3
	Doctor	Root	Required: externalId, firstName, lastName		
			Optional: middleName, email		
	Address	Doctor	Required Complex Element		
	House Number	Address	Required Simple Element with integer Data		
	Area	Address	Required Simple Element with text Data		
	District	Address	Required Simple Element with text Data		

	State	Address	Required Simple Element with text Data		
	Phone	Address	[0 ==> N entries]		
	Specialty	Doctor	Required Simple Element with text Data		
	Qualification	Doctor	Required Simple Element with text Data		
	Organization	Doctor	Optional element defining doctor's work place		
	Fees	Doctor	Required: payment mode		
	External entity: Booking App	Doctor	Value: Lybrate		

For the above data describe an external DTD and xml file for various doctors.

OR

For the above data describe an Schema and xml file for various doctor.