1058

B.E. (Computer Science and Engineering)
Fourth Semester
CS-402: Web Technologies

Time allowed: 3 Hours

Max. Marks: 50

NOTE: *Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Section.*

x-x-x

I	a) How WWW is different from Internet? Discuss.	(02)
	b) What is the purpose of alert dialog box in JavaScript? How is it used? Give example.	(02)
	c) List two disadvantages of using GET method over POST method.	(02)
	d) Give syntax of the statement used to create a cookie in PHP.	(02)
	e) What does it mean to parse XML? Give an example to clarify.	(02)

SECTION-A

II	a) What are different types of Internet connections? Discuss any two and compare them with respect to technology, speed, cost and operational ease.	(05)
	b) Create a web page to display the following table:	

Name of Train	Place		Fare	Time	
	To	From		Arrival	Departure
Rajdhani	Delhi	Mumbai	950	1. 07:00 2. 08:00	1. 10:00 2. 11:00
Chennai Exp	Chennai	Mumbai	730	1. 08:00 2. 09:00	1. 11:00 2. 12:00

(05)

III	a) Discuss the concept of internal and external style sheets and differentiate between them with the help of suitable example.	(05)
	b) Briefly discuss any two properties and any two methods of Window and Location objects each.	(05)

IV	a) Design a form that asks the user for his name, address and credit card number. Include JavaScript to validate the data as follows:	
	• Name should have 25 characters and it does not have any numbers and special characters.	
	• Address should have at least 200 characters.	
	• Credit card number is a 16-digit integer.	
	Appropriately assume any required information yourself.	(07)
	b) What is DHTML? How is it different from HTML? Discuss in brief.	(03)

SECTION-B

V	a) What is DTD? Write a DTD to describe the schema of a list of persons with the attributes: name, birthdate, gender and aadhaar number. The name is divided into first name, an optional middle name, and last name. Appropriately assume any required information yourself.	(05)
	b) What is MySQL? Discuss the statements used to create and drop databases and tables.	(05)

VI	a) Differentiate between:	
	i) XML elements and XML attributes	
	ii) Well-formed XML documents and Valid XML documents	
	Give example of each.	(05)
	b) How arrays are created in PHP? Write a PHP function to sort the elements of an array. Appropriately assume any required information yourself.	(05)

VII	a) Assume a table manager (id, name, department, salary) in the database. Write suitable code in PHP that connects to the database, fetches and displays the names of the managers having maximum salary, department-wise. Appropriately assume any required information yourself.	(07)
	b) How session are started and destroyed in PHP? Discuss in brief.	(03)