CBCS SCHEME

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20MCA41

Fourth Semester MCA Degree Examination, June/July 2023
Advances in Web Technologies

Time: 3 hrs. Max. Marks: 100

Note: ***Answer any FIVE full questions, choosing ONE full question from each module.***

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-1

1 a. Explain any six string functions in PHP. **(06 Marks)**
b. Explain Cookies in PHP. **(04 Marks)**
c. Construct a PHP program to read student data from an XML file and store it into MYSQL. Retrieve and display the details using search options. **(10 Marks)**

OR

2 a. Explain Logical internal structure of arrays in PHP. **(06 Marks)**
b. Illustrate Session Tracking in PHP. **(04 Marks)**
c. Build a PHP form to display text base , table , radio button , submit button and clear button using XML. **(10 Marks)**

Module-2

3 a. List and explain different string methods in Ruby. **(10 Marks)**
b. Develop a program for generating dynamic documents in Ruby on Rails. **(10 Marks)**

OR

4 a. Demonstrate layouts in Rails. **(08 Marks)**
b. Develop a program in Ruby to read list of names from the keyboard, convert them all to upper case letters and place in an array and display in a sorted format. **(12 Marks)**

Module-3

5 a. Discuss the difference between Traditional web application and Ajax model. **(06 Marks)**
b. Describe the different HTTP status code with their message. **(04 Marks)**
c. Build a program to send the data to the server using GET method in Ajax. **(10 Marks)**

OR

6 a. Explain the technology behind Ajax. **(05 Marks)**
b. Create a program to send data to the server using POST method in Ajax. **(10 Marks)**
c. Explain the principles of Ajax. **(05 Marks)**

Module-4

7 a. Create a web page using array of XMLHTTP request object. **(08 Marks)**
b. Build a program to cancel pending request using fallback pattern. **(08 Marks)**
c. Describe Predictive fetch pattern. **(04 Marks)**

OR

8 a. Create a program for New comment Notifier using periodic refresh. **(08 Marks)**
b. Describe Periodic refresh pattern. **(04 Marks)**
c. Build a program for Page preloading using predictive fetch. **(08 Marks)**

Module-5

9	a.	Explain Fluid Grid system, with an example.	(05 Marks)
	b.	Create a table using bootstrap table classes.	(10 Marks)
	c.	Explain Responsive design with example.	(05 Marks)

OR

10	a.	Create a form using Optional form layouts of Bootstrap.	(10 Marks)
	b.	Explain Prepended appended Input controls with example.	(10 Marks)

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