CBCS SCHEME

USN | | | | | | | | | | | 20MCA41

Fourth Semester MCA Degree Examination, Dec.2023/Jan.2024
Advances in Web Technologies

Time: 3 hrs.   Max. Marks: 100

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

Module-1

1   a. How to create an array in PHP? Explain any five array functions in PHP with example.
                                                                      (10 Marks)
    b. Explain file handling functions in PHP with example.   **(10 Marks)**

OR

2   a. What are cookies and sessions in PHP? How to create a session and cookies? Give an example.   **(10 Marks)**
    b. Explain the form handling methods in PHP with programming example.   **(10 Marks)**

Module-2

3   a. Explain any four built-in methods for arrays and hashes in Ruby with example.   **(10 Marks)**
    b. Explain the following iterators with example:
        i) Times
        ii) Each
        iii) Step
        iv) collect & collect!   **(10 Marks)**

OR

4   a. Explain with a diagram, the directory structure of rails application.   **(10 Marks)**
    b. Explain any five string methods in Ruby with example.   **(10 Marks)**

Module-3

5   a. Differentiate between classic web application model and AJAX application model. Explain the Architecture of AJAX.   **(10 Marks)**
    b. Explain the AJAX principles in detail.   **(10 Marks)**

OR

6   a. Explain the steps for sending data to the server using POST method using AJAX.   **(10 Marks)**
    b. Explain the following with respect to AJAX:
        i) OnReadyStateChange property
        ii) ReadyState
        iii) GET and POST method
        iv) ResponseText property   **(10 Marks)**

Module-4

7   a. Explain how to handle multiple XMLHttpRequest objects in the same page, with an example.   **(10 Marks)**
    b. Write a short notes on :
        i) Pattern- Predictive Fetch algorithm.
        ii) Multi-stage download   **(10 Marks)**

OR

8 a. Explain how to create an XHR [XMLHTTPRequest] object in AJAX application. **(10 Marks)**
   b. Explain the following :
       i) Periodic Refresh and Fallback patterns
       ii) Submission throttling. **(10 Marks)**

Module-5

9 a. What is Bootstrap? Explain the grid system in detail with example. **(10 Marks)**
   b. Explain the typography and links in Bootstrap with example. **(10 Marks)**

OR

10 a. Write a program to create vertical form. **(06 Marks)**
    b. Explain how to use Bootstrap Icons in your code with example. **(06 Marks)**
    c. Explain different table classes with suitable example. **(08 Marks)**

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