USN

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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