20MCA41

USN

Fourth Semester MCA Degree Examination, June/July 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. What is PHP? Explain major components of PHP with their usability factor? **(10 Marks)**
  b. What are the different types of pattern matching in PHP? **(10 Marks)**

OR

2 a. What is function and general characteristics of function with example. **(10 Marks)**
  b. Explain primitives and operations with examples. **(10 Marks)**

Module-2

3 a. What are methods and classes in Ruby? **(10 Marks)**
  b. Explain various control statements in Ruby. **(10 Marks)**

OR

4 a. Explain the document Request applications in Rail app development. **(10 Marks)**
  b. Explain the process to connect Database in rail Application with an example. **(10 Marks)**

Module-3

5 a. Explain the mechanism and techniques involved in AJEX. **(10 Marks)**
  b. Explain with Asynchronous application for creating AJEXpplication. **(10 Marks)**

OR

6 a. Explain AJAX with its characteristics. **(10 Marks)**
  b. Describes the Applications of Rich Internet applications with example. **(10 Marks)**

Module-4

7 a. Explain fallback patterns and submission throttling with example. **(10 Marks)**
  b. Explain two uses of XMLHTTP Request objects. **(10 Marks)**

OR

8 a. Explain AJEX pattern matching with example. **(10 Marks)**
  b. Explain Multi-stage download and periodicRefresh with example. **(10 Marks)**

Module-5

9 a. What is Bootstrap? What are the offset columns in Bootstrap? Explain with example.
     (10 Marks)
  b. Explain what are class loaders in Bootstrap with example. **(10 Marks)**

OR

10 a. What is Responsive Design? Explain with appropriate example. **(10 Marks)**
   b. What do you meant by the Bootstrap Grid system? **(10 Marks)**

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