



CBCS SCHEME

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.

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 XMLHttpRequest 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)

CMRIT LIBRARY
BANGALORE - 560 037
