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First Semester MCA Degree Examination, Dec.2018/Jan.2019

Web Technologies

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Write the differences between Internet and World Wide Web. (04 Marks)
b. Discuss in detail, different phases of HTTP. (08 Marks)
c. What is a web server? Explain its file structure. (04 Marks)

OR

- 2 a. With a neat diagram, explain working of SMTP. (08 Marks)
b. Write the differences between GET and POST method. (04 Marks)
c. Mention the duties of IETF (Internet Engineering Task Force). (04 Marks)

Module-2

- 3 a. What are the different levels of style sheet? Explain. (06 Marks)
b. Describe the various selector forms with suitable examples. (06 Marks)
c. Explain the box model of CSS. (04 Marks)

OR

- 4 a. What are the differences between HTML and XHTML? (04 Marks)
b. Explain nested lists and definition lists in XHTML. (06 Marks)
c. Create a student registration form to accept name, gender, date of birth, qualification, address and pin code. Provide reset and submit buttons. (06 Marks)

Module-3

- 5 a. Name the primitive data types in JavaScript. How are objects different from primitives? Explain. (06 Marks)
b. When do we use the three built-in windows of JavaScript? Explain with a code snippet. (04 Marks)
c. Write the JavaScript code to find median of a set of numbers stored in an array. (06 Marks)

OR

- 6 a. List the built-in JavaScript character classes along with their meanings. (06 Marks)
b. Discuss the purpose of the following JavaScript functions:
i) split()
ii) match()
iii) replace()
iv) search() (04 Marks)
c. What is DOM? Describe the DOM tree structure with the help of a simple document. (06 Marks)

Module-4

- 7 a. Explain even handling in DOM2. (06 Marks)
b. Discuss the various forms of accessing XHTML elements. (06 Marks)
c. What is stacking of elements? Explain with an example. (04 Marks)

OR

- 8 a. How does an XSLT processor process an XSLT style sheet with an XML document? Explain. (08 Marks)
b. Write short notes on:
i) Document Type Definition
ii) Web services (08 Marks)

Module-5

- 9 a. Explain the following in PERL with suitable examples:
i) Hashes (08 Marks)
ii) References (08 Marks)
b. Discuss the various operations available under pattern matching in PERL. (08 Marks)

OR

- 10 a. What is a query string? Explain its format. (04 Marks)
b. What is a cookie? Why is it used? How cookies are handled in PERL? Give an example. (08 Marks)
c. What are the categories of PERL variables? Give examples. (04 Marks)
