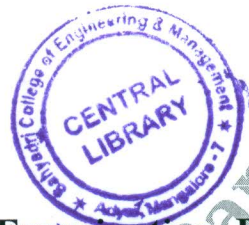


USN

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10CS73

**Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019**  
**Programming the Web**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions, selecting  
atleast TWO questions from each part.**

**PART – A**

- 1 a. Explain the terms :  
i) Internet ii) Web iii) Web Browser iv) Web server v) MIME. (10 Marks)
- b. Give syntax and an example to each of the following tags :  
i) <pre> ii) <a> iii) <img> iv) <sub> v) <p>. (10 Marks)
- 2 a. What are the different levels of CSS style sheets? (09 Marks)
- b. Explain the concept of pseudo classes. (05 Marks)
- c. Create and test an XHTML document that describes an unordered list of at least five popular books. The bullet for each book must be a small image of its books cover. (06Marks)
- 3 a. Describe briefly major difference between JavaScript and Java. (04 Marks)
- b. Describe the two ways of an array object can be created. (04 Marks)
- c. Develop and demonstrate using JavaScript, a XHTML document that collects the USN (the valid format is a digit from 1 to 4 followed by two upper-case characters followed by two digits followed by two upper\_case characters followed by 3 digits (no embedded space allowed) and semester (the valid format is a digit from 1 to 8) of the user. Event handler must be included for the form element that collects this information to validate the input. Messages in the alert windows must be produced when errors are detected. (12 Marks)
- 4 a. Explain the terms: i) DOM ii) Event iii) Event handler iv) Even registration. (10 Marks)
- b. Explain the technique of DOM tree traversal with a program. (10 Marks)

**PART – B**

- 5 a. What is XML? Explain how to write an XML document. (10 Marks)
- b. Differentiate DOM and SAX. (05 Marks)
- c. What is XSLT? Explain with an example. (05 Marks)
- 6 a. Explain three different types of variables that could be used in Perl with the help of example. (06 Marks)
- b. Explain the following functions : i) Shift( ) ii) Unshift( ) iii) Push( ) iv) Pop( ). (08 Marks)
- c. What is the purpose of CGI? How CGI overcomes the limitations of XHTML. (06 Marks)
- 7 a. What are the four scalar types of PHP? (08 Marks)
- b. Write the syntax and semantics of the two forms of the 'foreach' statement with example. (08 Marks)
- c. Define cookie. Where cookie has to be stored? (04 Marks)
- 8 a. Explain the terms : i) MVC ii) ORM. (10 Marks)
- b. Explain the directory structure for the rails1 application. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.