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322355(22)

B. E. (Third Semester) Examination, April-May 2019

(New Scheme)

(Computer Science & Engg. Branch)

COMPUTER CONCEPTS & WEB TECHNOLOGY

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

*Note : Attempt all questions. Attempt any **two** parts from part (b), (c) and (d) of each question. Part (a) of each question is compulsory.*

Unit-I

1. (a) What is System Software?   2

   (b) Draw a block diagram to illustrate the basic organization of a computer system and explain the functions of various units.   7

(c) Explain the difference among random access, pseudo-random access and sequential access storage units. Write an example of each type of storage unit.   7

(d) Explain the role of an operating system with respect to following functions :   7

   (i)   Process Management

   (ii) Memory Management

   (iii) File Management

   (iv) Security

   (v) Command Interpretation

Unit-II

2. (a) What is transmission mode?   2

(b) What is an electronic mail (e-mail)? Why it is preferred by many to paper mail, telephone and fax services?   7

(c) What is FTP? Differentiate between "downloading" and "uploading" of information.   7

(d) Write short notes on :

   (i)   WWW   1

   (ii) ISP   2

   (iii) Web Client & Web Server   2

   (iv) HTPP   2

Unit-III

3. (a) What is DTD?   2

(b) Write an HTML programe for student's personal information database of CSVTU University using forms, Tables and CSS.   7

(c) What is XML? Define Namespace conflict with suitable example using XML.   7

(d) Write short notes :   7

   (i)   XLINK

   (ii) XPATH

   (iii) XPOINTER

   (iv) XML Parser

   (v) XML schemes

   (vi) XML entities

   (vii) XML element and attributes

Unit-IV

4. (a) What is client side programming?   2

(b) Write a form validation program using JavaScript to validate name, zip code, phone number and email id.   7

(c) What is CSS? Explain different types of CSS with suitable examples.   7

(d) Write short notes :

   (i)   Ajax   2

   (ii) Try.....Catch Statements   2

   (iii) Control Statements   2

   (iv) Operators   1

Unit-V

5. (a) Define DOM.   2

  (b) Describe life cycle of applet ith suitable example.   7

  (c) What is CGI programming? Differentiate between Testing and Debugging.   7

  (d) Write short notes : (any **two**)   7

   (i)   Introduction to Java

   (ii) Perl

   (iii) XML DOM