322355(22)

B. E. (Third Semester) Examination, April-May 2021

(New Scheme)

(CSE Branch)

COMPUTER CONCEPTS & WEB TECHNOLOGY

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : *Attempt all questions. Parts (a) of each question is compulsory, it carry 2 marks and attempt any 2 from part (b), (c) & (d), it carries 7 marks.*

Unit-I

1. (a) Enlist various functions of Operating System.   2

[2]

(b) Draw the classification of storage systems with the help of a diagram. What is the difference between a magnetic tape and a magnetic disc? Give some examples of optical storage systems. 7

(c) Explain the fourth generation of computers. Which technology was used in the second generation computers? How does it compare with the technology used in the first generation computers? 7

(d) What do you mean by Input Units and Output Units? Give any two examples of each of them. 7

Unit-II

2. (a) What do you understand by Internet, Intranet and Extranet? 2

(b) Write short notes on any **two** : 7

   (i) Connection to Internet

   (ii) Protocols Governing the Web

   (iii) Types of Computer Network

(c) What is an E-mail? Explain the process and protocols required for sending and receiving secure E-mail. 7

[3]

(d) What is Data Transmission? Explain Asynchronous, Synchronous and Isochronous mode of data transmission with diagram. 7

Unit-III

3. (a) Fill in the blanks : 2

.... is the unique address of a computer on the network. .... is a computer that contains the web pages corresponding to the websites available on the Internet. .... is a software, which is mandatory to access the Internet and the WWW. WWW refers to ....

(b) Describe the steps for building a website with an example. 7

(c) Create an HTML file and make an external CSS file to define the font, font style, font weight, align and various table tag properties that displays the following (Note : define property value by your own). 7

List of Courses and Instructor

Course	Batch No.	Course Instructor	Entrolled Students
Computer	A1	John	50
Network	A2	Jeremy	60
Operating System	B1	Sara	40
Data Structures	C1	Quinten	60
	C2		50
		TOTAL STUDENTS	260

Or

Design an HTML form for an Online User Registration.

(d) What is XML DTD? Design an XML document to store information about a student. The information must include Roll No, Name, Name of the College, Branch and E-mail id. Make sample data for 3 students. Write XML DTD for the document. 7

Unit-IV

4. (a) Write the difference between div and span tag with syntax example. 2

(b) Write java scripts to validate any five HTML form objects for a typical online user registration process. 7

(c) Describe the exception handling using try-catch satements in Java Script with an example. 7

(d) Write a short note on CSS. Explain its types with an example. 7

Unit-V

5. (a) What is meant by dynamic HTML? 2

(b) Write short notes on DOM and event model. 7

(c) What is Java Applet? Describe the life cycle of Java Applet with neat diagram and syntax. 7

(d) What do you mean by CGI? Explain the scalar variable and operators used in the Perl CGI. 7