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Roll No. :

322355(22)

B. E. (Third Semester) Examination, 2020

APR-MAY 2022
(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. Part (a) of each question is compulsory. Attempt any two parts from part (b), (c) and (d) of each question. Draw neat diagram wherever required.

Unit-I

1. (a) Write the basic components of digital computer system. 2
- (b) Define the term algorithm. Write the characteristics of computers. 7

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- (c) What is operating system? Explain various functions of operating system. 7
- (d) Write short notes on : 7
- (i) Machine language
 - (ii) Assembly language
 - (iii) High level language

Unit-II

2. (a) What is computer network? 2
- (b) Define the term transmission mode. Explain various types of transmission mode with suitable example for each. 7
- (c) Define the term asynchronous, synchronous and isochronous with example. 7
- (d) Write short notes on : 7
- (i) LAN
 - (ii) MAN
 - (iii) WAN

Unit-III

3. (a) Define the term web browser. Also write atleast three web browser names. 2

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- (b) What is html? Write html code for listing the grocery items using ordered list. Also show its output. 7
- (c) What is XML? Also explain the term DTD. (Document Type Definition). Write internal DTD for the following XML code : 7

```
<employee>
  <empno> 101 </empno>
  <name> Rama </name>
  <salary> 20000 </salary>
</employee>
```

- (d) What is XML namespaces? Why it is required? Explain it with example. 7

Unit-IV

4. (a) What is CSS? Why we use CSS? 2
- (b) Explain the difference between external and internal CSS with suitable example. 7
- (c) Write the concept of class selector and Id selector with example. 7
- (d) Write the utility of try, catch and throw statement in java script. 7

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Unit-V

5. (a) Define the term DHTML. 2
- (b) Write the difference between java and C++ programming language. 7
- (c) What is java applet? Explain life cycle of java applet. 7
- (d) Write short notes on : 7
- (i) Cql
 - (ii) Perl