D 9917

(Pages : 2)

Name.....

Reg. No.....

Maximum Weightage: 30

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2010

(CCSS)

Computer Science—Complementary Course

CMCA 03—FUNDAMENTALS OF SYSTEM SOFTWARE, NETWORK AND DBMS

Time : Three Hours

I. Answer all questions :

- 1 _____ is an example of system software.
- 2 A software which translates assembly language program to machine language is called a
- **3** A_______ takes one statement of the high Level Language program, translates it into machine level instructions, and then execute the resulting machine language instruction immediately.
- 4 ______ use very high frequency radio signals to transmit data through space.
- 5 WAN stands for _____
- 6 A _____ is a set of formal operating rules, procedures, or convention that govern a given process.
- 7 In relational model, data are stored in _____
- 8 Data in the network model are represented by a collection of _____
- 9 UPDATE command is used for -
- 10 _____ command is used to remove an entire table from the data base.
- 11 HTML documents are defined by HTML _____
- 12 **HTML** links are define with the _____ tag.

(12 x = 3 weightage)

II. Answer *all* questions :

- 13 List any *four* functions of an operating system.
- 14 Write any four examples of High Level Languages.
- 15 What is a LAN?
- 16 What are the layers of Internet protocol.
- 17 Define data rate.
- 18 Define DBMS.
- 19 List four advantages of DBMS.
- 20 Write and explain the syntax of SELECT command.
- 21 Define hypermedia.

= 9 weightage) Turn over III. Answer any *five* questions :

- 22 Differentiate between batch, multiprogramming, time sharing and real-time systems.
- 23 Compare Machine Language, Assembly Language and High Level Language.
- 24 Briefly explain the functions of various layers of OSI model.
- 25 Write important features of Fibre optic and Microwave communication media.
- 26 Briefly explain the features of hierarchical data model.
- 27 Write SQL statements for the following :--
 - (a) Create a table with book-no, title, author-name and price. (book-no as primary key).
 - (b) Add a new field "edition" to the above table.
 - (c) Add a sample record.

28 Write note on HTML lists.

 $(5 \ge 2 = 10 \text{ weightage})$

- IV. Answer any two questions :
 - 29 With neat diagrams, discuss network topologies.
 - 30 With suitable example, explain relational data model. List the advantages of relational model over other models.
 - 31 Create an **HTML** document to generate a web page of your choice. Include as many features as possible.

 $(2 \times 4 = 8 \text{ weightage})$