D 31120

Name

Reg. No. . . . .

THIRD SEMESTER 133c. DEGREE EXAMINATION NOVEMBER 2012

(CCSS)

Computer Science – Complementary Course

CM CA 03 – FUNDAMENTALS OF SYSTEM SOFTWARE, NETWORKS AND DBMS

Time : Three Hours   Maximum : 30 Weightage

I. Answer all *twelve* questions :

1. ———— software is a set of one. or more program designed to control the operation and extend the processing capabilities of a computer..

2. ———— is an example of time sharing operating system.

3. ———— is a translator program that translates a high level language program into its equivalent machine language program.

4. ———— refers to data transfer rate of a communication system.

5. ———— are groups of specially wrapped and insulated wire lines capable of transmitting data at high rates.

6. MAN stands for ————

7. ———— is an example of a data model.

8. A tuple is also known as ————

9. CREATE statement is used for

10. To modify the structure of a table ———— command is used.

11. ———— provide additional information about an HTML element.

12. HTML paragraph are defined with ———— tag.

(12 x ¼ = 3 weightage)

II. Answer all *nine* questions :

13. Define operating system.

14. List any *two* features of High Level Languages.

15. What is a WAN?

16. List any *four* roles of a communication protocol.

Turn over

17. What do you mean by "Broad band"?

18. Define DBMS.

19. Define hierarchical model.

20. Write and explain the syntax of INSERT command.

21. Define Hypertext.

(9 x 1 = 9 weightage)

III. Answer any *five* questions

22. Explain the function of an operating system.

23. Compare Machine Language, Assembly Language and High Level Language.

24. Briefly explain the functions of various layers of Internet protocol.

25. Compare star and ring topologies.

26. Briefly explain the feature of network data model.

27. Write SQL statements for the following :

   (a) Create a table with accno, name and balance (with accno as primary key).

   (b) Add a sample record : "101", "XYZ", 1000.:

   (c) Update the balance to 2000.

28. Explain any *five* HTML tags.

(5 *x 2* = 10 weightage)

IV. Answer any *two* questions

29. Discuss various communication media.

30. With suitable example, explain relational data model. List the advantages of relational model over other models.

31. Create a web page of your choice using HTML. Include as many features as possible.

(2 x 4 = 8 weightage)