

D 92293

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Name.....

Reg. No.....

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2015

(CUCBCSS—UG)

Complementary Course

BCS 3C 03—FUNDAMENTALS OF SYSTEM SOFTWARE, NETWORK AND DBMS

Time : Three Hours

Maximum : 64 Marks

Part A

*Answer **all** questions.
Each question carries 1 mark.*

1. In an entity relationship diagram rectangles represent
2. What does the DOCTYPE declaration define in html ?
3. The topology with highest reliability is _____
4. Give an example for system software.
5. _____ links the program with other programs needed for its execution.
6. Name the operating system that reads and reacts in actual time.
7. The method of communication in which transaction takes place in both directions, but only in one direction at a time, is called
8. Transmission data rate is decided by
9. Name the ACID properties of transaction.

(9 x 1 = 9 marks)

Part B

*Answer **all** questions.
Each question carries 2 marks.*

10. What is a TAG ? Explain in detail.
11. Mention some advantages of assembly language over high level language.
12. List the disadvantages of bus topology.
13. What is the use of application layer in OSI Reference model ?
14. What is Normalization ? Why do we need normalization ?

(5 x 2 = 10 marks)

Turn over

Part C

*Answer any five questions.
Each question carries 5 marks.*

15. Explain list tag.
16. Describe the components of fibre optic cable with help of block diagram.
17. What is language processing ? Describe various types of language processors.
18. What are the different types of database end users ? Discuss the main activities of each.
19. Explain Insert into and Select clause with examples ?
20. Explain about Entity, Integrity, Referential Integrity and Foreign keys.
21. Explain the main responsibilities of Data Link Layer.
22. Write short note on Network Topologies and their uses.

(5 x 5 = 25 mark,

Part D

*Answer any **two** questions.
Each question carries **10** marks.*

23. Explain various cabling techniques with suitable figures.
24. Explain different types of Operating System in detail.
25. Explain the features of E-R Model.

(2 x 10 = 20 marks)