

C 81773

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Name.....

Reg. No.....

SECOND SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION, APRIL 2020

Computer Science

BCS 2C 02—FUNDAMENTALS OF SYSTEM SOFTWARE, NETWORK AND DBMS

(2017 Admissions)

Time : Three Hours

Maximum : 64 Marks

Part A

Answer all questions.

Each question carries 1 mark.

1. A translator which converts high level language into machine language is called \_\_\_\_\_.
2. Bits can be send over guided and unguided media as analog signal by :  
(A) Digital modulation. (C) Amplitude modulation.  
(B) Frequency modulation. (D) Phase modulation.
3. Which of the following are unguided media ?  
(A) Coaxial cable. (C) microwave.  
(B) Twisted pair cable. (D) Fiber optics.
4. A distributed network configuration in which all data/information pass through a central computer is \_\_\_\_\_ network.
5. \_\_\_\_\_ refers to the physical channel through which data is sent and received.
6. A \_\_\_\_\_ is a data model in which the data is organized into a tree-like structure.
7. \_\_\_\_\_ are composed of fields, each of which contains one item of information.
8. Which SQL command is used to delete a table from the database ?
9. \_\_\_\_\_ is a standard text formatting language which is used to create and display pages on the Web.

(9 × 1 = 9 marks)

Turn over

**Part B**

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

10. What is an operating system ?
11. What are the goals of networking ?
12. What is a database ?
13. What is hypertext ?
14. How to insert a comment line in HTML document ?

(5 × 2 = 10 marks)

**Part C**

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

15. Compare machine, assembly and high level languages.
16. Explain batch and multiprogramming operating system.
17. Differentiate LAN and MAN.
18. Differentiate guided and unguided communication media.
19. What is an optical fiber ? What are its advantages ?
20. What is SQL ? Explain any *two* DDL statements in SQL.
21. Differentiate update and alter query in SQL.
22. How to insert an image and a link in HTML document ? Explain it with an example.

(5 × 5 = 25 marks)

**Part D**

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

23. Explain various network topologies with diagram.
24. Describe the various layers of the OSI model of network architecture with functions of each layer.
25. Write a short notes on:
  - (A) Data models.
  - (B) General structure of HTML document.

(2 × 10 = 20 marks)