

23U225

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Name:

Reg.No:

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2024

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U CSC2 C02 - FUNDAMENTALS OF SYSTEM SOFTWARE NETWORKS AND DBMS

(Computer Science - Complementary Course)

(2019 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 2

Part A (Short answer questions)

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

1. Define compiler and Interpreter.
2. Define Operating System. Give any two examples.
3. What is the difference between time sharing and multiprogramming?
4. What is meant by OSI model? What are the functions of Physical layer in OSI model?
5. What is transmission media? What are its major classifications?
6. Define the term data redundancy.
7. What is a relation? Describe the characteristics of a relation.
8. What are the different Database Languages?
9. Write any four constraints in SQL.
10. What is world wide web?
11. What are the main tags used in the structure of an HTML document?
12. What are the different heading tags in HTML?

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Explain the various types of system software.
14. Write a short note on star topology. What are its advantages and disadvantages?
15. Write a short note about the features of LAN, WAN and MAN

16. What is data independence? Explain the difference between logical data independence and physical data independence.
17. Describe the Candidate Key, Primary Key and super key. How Primary Key is different from foreign key?
18. Consider the following table: Employee (Emp_no, Name, Emp_city, Company_name, Salary) (a) Construct table Employee (b) Insert 5 values (c) Write a SQL query to display Employee name and company name. (d) Write a SQL query to display employee name, employee city, company name and salary of all the employees whose salary >20000 (e) Write a query to display all the employees working in 'XYZ' company.
19. What is an unordered list? What are the different elements used for creating an ordered list in HTML. Illustrate with example.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

20. Explain in detail about different classification of computer languages.
21. What are table elements in HTML? Explain the attributes rowspan and colspan with suitable examples.

(1 × 10 = 10 Marks)
