

1911000302030081
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (SECOND SEMESTER)
COMPUTER SCIENCE PAPER - I

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination: **BACHELOR OF SCIENCE (SECOND SEMESTER)**
 - b. Name of the Subject: **COMPUTER SCIENCE PAPER - I**
 - c. Subject Code No: **1911000302030081**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer the following.

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- 1) Define Number system.
- 2) What is Key? Define primary key.
- 3) Define NOR gate.
- 4) What is truth table? Draw truth table of AND gate
- 5) What is range searching? Give one example.
- 6) What is information? How it is related to database.
- 7) $101110_2 = \underline{\hspace{2cm}}_{10}$

Q.2 Answer the following.

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- 1) Explain binary addition and subtraction with example.
- 2) Explain process life cycle.

OR

- 1) Discuss uniprogramming memory model with its limitations
- 2) Explain OR gate and NAND gate.

Q.3 Answer the following.

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- 1) Explain create statement with constraints. Also give an example.
- 2) Explain with example how to insert and update records in the table?

OR

- 1) How to convert hexadecimal to binary? Explain with example.
- 2) Discuss long-term and short-term scheduler in detail.

Q.4 Answer the following. (Any two)

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- 1) Discuss data types available in DBMS.
- 2) Explain any 3 string functions with example.
- 3) Explain 3 aggregate functions with example.
- 4) Discuss SELECT statement with its various options.
