



RAN - 1911000302030081

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**F. Y. B. Sc. (Computer Science) (Sem. - II) Examination April - 2023**

**Computer Science : Paper - I**

**201 - Fundamentals of Computer and Database Management**

**सूचना : / Instructions**

(1)

नीचे दृशविले निशानीवाणी विगतो उत्तरवली पर अवश्य लपवी.

Fill up strictly the details of signs on your answer book

Name of the Examination:

F. Y. B. Sc. (Computer Science) (Sem. - II)

Name of the Subject :

Computer Science : Paper - I 201 - Fundamentals of Computer and Database Management

Subject Code No.: 1911000302030081

Seat No.:

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| Student's Signature |
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**Q. 1. Answer the following: (Any seven)**

**[14]**

- 1) Define decimal number system.
- 2)  $12570_8 = \underline{\hspace{2cm}}_{10}$
- 3) What do you mean logic gates?
- 4) Write truth table for AND gate.
- 5) Define operating system.
- 6) What is process?
- 7) What is primary key? List advantages of it.
- 8) What is range searching? Also give example.

**Q. 2. Answer the following:**

**[12]**

- 1) Explain how to convert hexadecimal to binary with example.
- 2) Explain NAND and XOR gate.

**OR**

- 1) Explain binary addition and binary subtraction with example.
- 2) Discuss functions of operating system.

**Q. 3. Answer the following:** [12]

- 1) Explain long- term and short-term scheduler.
- 2) Discuss uniprogramming memory model with its disadvantage.

**OR**

- 1) Explain virtual memory.
- 2) Explain insert and update of records with example.

**Q. 4. Answer the following: (Any two)** [12]

- 1) Explain 'LIKE' and "BETWEEN' with example.
  - 2) Discuss 3 aggregate function with example.
  - 3) Explain 3 string functions with example.
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