

RAN-2411000901022005

F.Y.B.C.A. (Data Science and Analytics) (Honors) (NCF-NEP) (Sem. I)**Examination November - 2025**

Major - 105-04 : Basic of Data Science (TH) (New)

Time: 1 Hour]

[Total Marks: 25

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.
- (2) All questions are compulsory.
- (3) Figure to the right indicate full marks.
- (4) Mention your options clearly.

Seat No.:

--	--	--	--	--	--

Student's Signature

Q. 1. (A) MCQ (4 out of 5)

(04)

1. The ability to insert, delete, and update records, is offered by _____
 - a) DDL (Data Definition Language)
 - b) DML (Data Manipulation Language)
 - c) DQL (Data Query Language)
 - d) None of the above
2. Which of the following cannot be taken as a primary key?
 - a) Customer_ID
 - b) Dept_ID
 - c) Trans_ID
 - d) Street
3. Which normal form ensures that non-key attributes are fully functionally dependent on the primary key?
 - a) First Normal Form (1NF)
 - b) Second Normal Form (2NF)
 - c) Third Normal Form (3NF)
 - d) None of the Above
4. Which of the following is an example of structured data?
 - a) An email message
 - b) YouTube video
 - c) A database table with rows and columns
 - d) A PDF document
5. Which of the following is not a valid keyword in SQL?
 - a) SELECT
 - b) DELETE
 - c) WHERE
 - d) INCLUDE

Q. 1. (B) Short Questions (4 out of 5)

(04)

1. List all DDL commands.
2. What is unstructured data?
3. Define the term Data Science.
4. What is alter command?
5. Define Weak Entity Set.

Q. 2. (A) Attempt following (05)

1. Explain data analytics life cycle with suitable steps.

OR

2. Explain Armstrong's Axioms with examples.

Q. 2. (B) Draw an E-R Diagram for College Management System. (04)

Q. 3. Write Any Two Out of Three (08)

(A) Explain 2NF with an example.

(B) What are the key skills required for a Data Scientist?

(C) Explain different types of keys with suitable examples
