

**RAN-2411000901022001**

F.Y.B.C.A. (Sem.- I) Examination November - 2025
Data Processing and Analysis (DPA)(TH) (Major-105)

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

Seat No.:

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Student's Signature

Q.1. (A) Choose appropriate correct option (Any Four)**[4]**

- In a worksheet, the intersection of row and column called?
 A. Cell B. Range
 C. Address D. Formula
- Which of the following anomalies is removed by 3NF?
 A. Insertion B. Update
 C. Transitive Dependency D. Deletion
- Which of the following component is responsible for managing disk space and storage?
 A. Transaction Manager B. Query Processor
 C. Report Generator D. DDL Compiler
- Which SQL clause is used to arrange data in ascending/descending order?
 A. Where B. Order By
 C. Group By D. Having
- What type of view allows users to update the underlying table through the view?
 A. Read-only View B. Materialized View
 C. Updatable View D. Virtual View

(B) Answer in Short (Any Four)**[4]**

- What is Schema?
- Which chart type is best suited for showing percentage distribution?
- How do you reference cell A1 in Excel?
- Which constraint ensures that a column cannot have duplicate values?
- What does SQL stand for?

Q.2. Answer the following:

- A. What is Workbook? Explain its Structure.

[5]**OR**

- A. What are the different options available for inserting objects in a worksheet?
 Explain with example.

- B. What are the different types of charts in spreadsheets? [4]
Compare Column, Line, and Pie charts.

Q.3. Answer the following (Any 2) [8]

- A. Write a short note on Database Models.
B. Write a Short note on DML.
C. Draw an E-R diagram for a College Management System
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