2411000903011001
EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATION
(NCF-NEP) (THIRD SEMESTER)
MAJOR-1-DATABASE HANDLING USING PYTHON(TH)

[**Time: As Per Schedule]** **[Max. Marks: 25]**

Instructions:
1. Fill up strictly the following details on your answer book
   a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATION (NCF-NEP) (THIRD SEMESTER)**
   b. Name of the Subject : **MAJOR-1-DATABASE HANDLING USING PYTHON(TH)**
   c. Subject Code No : **2411000903011001**
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:

Student's Signature

Q.1 Answer the following (Any 5) **5**

1. Which SQL command is used to permanently save changes made during a transaction?

   A) ROLLBACK B) SAVEPOINT

   C) COMMIT D) DISCARD

2. Which option below will create a file containing only the table structures (no data) of the entire SQLite database?

   A) .schema B) .dump --schema

   C).dump|grep "CREATE" D) .backup --schema

3. Which of the following is true about packages in Python?

   A) Packages are directories containing modules.

   B) Packages must contain a special file named __init__.py.

   C) Packages help organize modules into hierarchical structures.

   D) All of the above.

4. Which of the following best describes a namespace in Python?

   A) A memory area to store variable names.

   B) A module containing variables and functions.

   C) A space where variables and functions have unique names.

   D) A directory for storing Python scripts.

5. Which class in the csv module is used to read data into dictionaries where the keys are the column names?

   A) DictReader B) DictWriter

   C) reader D) writer

6. Which of the following type can have 2-dimentional data?

   A) Numpy array B) List

   C) Data Frame D) All of the above

7. With respect to Series object S what will be the output of S [0:4]?

   A) Elements from 0 to 3 will be selected

   B) Elements from 1 to 4 will be selected

   C) Elements from 0 to 4 will be selected

   D) Elements from 1 to 3 will be selected

Q.2 [A] Explain Trigger and types of trigger with example **4**

OR

[A] Explain features and advantages of Sqlite **4**

[B] Explain how to import a CSV file into a table. **4**

OR

[B] How can you dump a specific table from a SQLite database into a file? **4**

Q.3 [A] How can you update existing data in a SQLite table using the execute() method? **4**

OR

[A] Explain fetchone (), fetchall () and fetchmany () methods with example. **4**

[B] How can you calculate the mean, median, and mode of a Data Frame Column using Pandas? **4**

OR

[B]How can you write data to a CSV file using DictWriter ()? **4**

Q.4 [A] Explain how to add a title and labels to the axes in a histogram using matplotlib. **4**

OR

[A] Describe how to create multiple plots in a single figure using subplot (). **4**

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