

VEER NARMAD SOUTH GUJARAT UNIVERSITY
Examination -MARCH 2026
SYBCA Database Handling Using Python (Semester-3)
Subject Code: 2411000903011001
Subject: 303-Database Handling Using Python



Time: 1 Hour.

Total Marks: 25

Instructions:

- All questions are compulsory.
- Figures to the right indicate full marks.

Q-1(A)	Answer the following MCQ questions (Any 4):	[4]
1	Which clause is used to remove duplicate records from results? a) WHERE b) DISTINCT c) GROUP BY d) LIMIT	
2	In SQLite dump, to export only one table: a) .dump table_name b) .table c) .export d) .save	
3	Which method saves changes permanently to the database? a) save() b) commit() c) rollback() d) apply()	
4	Which function gives the first 5 rows of a DataFrame? a) tail() b) head() c) describe() d) loc()	
5.	Scatter plot is useful for: a) Comparing frequencies b) Showing distribution c) Showing relationship between two variables d) Summarizing categories	
Q1(B)	Answer in short (Any 4):	[4]
1.	List any two advantages of SQLite.	
2.	Write the command to import a CSV file into SQLite.	
3.	What is a Python package?	
4.	Write any two functions to display specific rows of a DataFrame.	
5.	What is the purpose of the legend() function in matplotlib?	
Q-2	Do as directed:	[9]
(A)	Explain the use of UNION, INTERSECT, and EXCEPT with examples.	[5]
	OR	

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(A)	What is trigger in SQLite? Explain the difference between BEFORE and AFTER triggers.	[4]
(B)	Differentiate between fetchone() and fetchall() methods with an example.	[4]
Q-3	Do as directed (Any 2):	[8]
(A)	Differentiate between loc and iloc in pandas DataFrame.	
(B)	Explain the role of pandas read_csv() and to_csv() functions.	
(C)	Differentiate between scatter plot and line plot.	

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Examination March- 2026

Second Year B.C.A (Sem-3) (NCF-NEP)

Subject Code :2411000903022001



Paper Code: MJ2-304 -Object Oriented Programming and Data Structures (TH)

TIME:1 HOUR

TOTAL MARKS:25

Q1. (A) Choose the correct option (Any 4).

[04]

- (1) Which among the following doesn't come under OOP concept?
 - (a) Data hiding
 - (b) Message passing
 - (c) Platform independent
 - (d) Data binding
- (2) Which feature of OOP indicates code reusability?
 - (a) Abstraction
 - (b) Polymorphism
 - (c) Encapsulation
 - (d) Inheritance
- (3) Run – time polymorphism in C++ is achieved through:
 - (a) Function Overloading
 - (b) Operator Overloading
 - (c) Virtual Functions
 - (d) Inline Functions
- (4) What happens if we try to pop from an empty stack?
 - (a) Stack overflow
 - (b) Stack underflow
 - (c) Normal operation
 - (d) No error
- (5) If F = R in a circular queue, how many elements are there in the queue?
 - (a) Only 1
 - (b) 0
 - (c) 2
 - (d) 3

Q1 (B) Answer in short. (Any 4).

[04]

- (1) Define a class in C++. How is an object created from a class?
- (2) Define inheritance. List types of inheritance in C++
- (3) What is a stack?
- (4) State one advantage of circular queue over a simple queue.
- (5) What is a friend function? Can a friend function access private member of a class?

Q2. Answer in Detail

- (1) Write short note on any four functions of <string.h> with their syntax and purpose.

OR

[05]

- (2) What is OOP? List out its features and write difference between POP & OOP. **[05]**
- (3) Explain constructors in C++. Explain types of constructors, with syntax and example in detail. **[04]**

Q3. Answer in Detail (Any 2).

[08]

- (1) What is Data structure? Discuss linear and non-linear data structure in detail.
- (2) Explain the implementation of a simple queue using an array with insert, delete and display operations.
- (3) Define polymorphism. Explain the difference between compile-time polymorphism and run-time polymorphism with examples.

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Examination March- 2026
SYBCA (THIRD SEMESTER) BACHELOR OF COMPUTER APPLICATION (NCF – NEP)
Subject Code 2411000903033001
Course Code :MAJOR – 3 – WEB DESIGNING – 1



Time: 1 Hours

Total Marks: 25

Q1. MCQ (Any 4)

(4)

1) What type of css change particular element property?

- (a) Internal css
- (b) Inline css
- (c) External css
- (d) None of above

2) How many columns are in grid structure of bootstrap?

- (a) 3
- (b) 6
- (c) 12
- (d) 9

3) What is output of this code:

```
var str= "I learn wd";  
document. Write("output"+ index Of("e"))
```

- (a) 3
- (b) 1
- (c) 5
- (d) -1

4) What is full form of DOM?

- (a) Document Objects Model
- (b) Document Object Model
- (c) Document Oriented Model
- (d) Document Object Maker

5) What is output of var str= "bca college ";

- (a) 0
- (b) 3

(c) 2

(d) 1

Q1(B) Short Q/A (Any 4).

(4)

- 1) What is full form of CSS?
- 2) What is full form of HTML?
- 3) What is used of novalidate in<form>tag?
- 4) What is used of container class?
- 5) Who invented JavaScript?

Q2(A) Give Descriptive Answer:

(5)

- 1) What is CSS? Explain types of CSS with examples

Or

- 2) Explain Form tag with its components.

Q2 (B) Explain grid structure of bootstrap.

(4)

Q3 (A) Long Questions (Any 2).

(8)

- 1) Explain Message boxes in JavaScript.
- 2) Explain JavaScript Events with examples.
- 3) Explain Date object of JavaScript