

2411000902011002-A
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)
(SECOND SEMESTER)
BCA SEM-2 (PRACTICAL -204) PROG - SKILL

[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 APPLICATIONS (PRACTICAL) (SECOND SEMESTER)**
 - b. Name of the Subject : **BCA SEM-2 (PRACTICAL -204) PROG - SKILL**
 - c. Subject Code No : **2411000902011002-A**
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:

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Student's Signature

- Q.1** Write a C program to create user define function fact() that returns factorial of given number N to main function. **10**
- Q.2** Write a Python program to create a dictionary for student data which contain Roll No, Name, Div, Marks and City. Perform Insert, Update and Delete operation on it. **10**
- Q.3** Viva + Journal **5**

2411000902011002-B
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)
(SECOND SEMESTER)
BCA SEM-2 (PRACTICAL -204) PROG - SKILL

[Time: As Per Schedule]

[Max. Marks : 25]

Instructions:

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- a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL) (SECOND SEMESTER)**
 - b. Name of the Subject : **BCA SEM-2 (PRACTICAL -204) PROG - SKILL**
 - c. Subject Code No : **2411000902011002-B**
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:

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Student's Signature

- Q.1** Write a C program to accept the values of 3x3 matrix and perform following operations on it. **10**
- (1) Display transpose of matrix
 - (2) Display sum of diagonal of matrix
- Q.2** Write a Python program to create a data frame from a dictionary and display it. **10**
Dictionary contains information of students like Roll No, Name and Total marks (out of 500). Also display student records in descending order of Total marks.
- Q.3** Viva + Journal **5**

2411000902011002-C
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)
(SECOND SEMESTER)
BCA SEM-2 (PRACTICAL -204) PROG - SKILL

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

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- a. Name of the Examination: **BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL) (SECOND SEMESTER)**
 - b. Name of the Subject: **BCA SEM-2 (PRACTICAL -204) PROG - SKILL**
 - c. Subject Code No: **2411000902011002-C**
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:

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Student's Signature

- Q.1** Create structure App Data with following members: **10**
App Name, download Count, rating, developer
Accept 5 Application details from user and print details of application whose rating is highest.
- Q.2** Write a Python program to create a list of student's names and perform following operations on it. **10**
- i. Append Name in a list.
 - ii. Display list in sorted order.
 - iii. Count total number of students in list.
 - iv. Display last 3 names of a list.
- Q.3** Viva + Journal **05**

2411000902011002-D
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)
(SECOND SEMESTER)
BCA SEM-2 (PRACTICAL -204) PROG - SKILL

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

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- a. Name of the Examination: **BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL) (SECOND SEMESTER)**
- b. Name of the Subject: **BCA SEM-2 (PRACTICAL -204) PROG - SKILL**
- c. Subject Code No: **2411000902011002-D**

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:

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Student's Signature

- Q.1** Consider a structure as follow: **10**
- ```
struct stud_info
{
 int rno;
 char sname[30];
 int marks;
};
```
- Write a C program that accept details of N-students and display student's details in descending order on marks.
- Q.2** Write a Python program that accept a line of text from user and perform following operations on it. **10**
- i) Toggle case
  - ii) Title case
  - iii) Sentence case
  - iv) Exit
- Note: Menu will be repeated until user select Exit option.
- Q.3** Viva + Journal **05**

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**2411000902011002-E**  
**EXAMINATION APRIL - 2025**  
**BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)**  
**(SECOND SEMESTER)**  
**BCA SEM-2 (PRACTICAL -204) PROG - SKILL**

[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 APPLICATIONS (PRACTICAL) (SECOND SEMESTER)**
  - b. Name of the Subject: **BCA SEM-2 (PRACTICAL -204) PROG - SKILL**
  - c. Subject Code No: **2411000902011002-E**
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:

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Student's Signature

- Q.1** Write a C program to create a user defined function max () which accept 3- numbers and return maximum number from them. **10**
- Q.2** Create a DataFrame from CSV file which contains following values. **10**  
Book\_no, Book\_name, Price, Author  
Perform following operations on it:  
1. Print the values of book name.  
2. Display book name and author.  
3. Display the details of book named 'Let us C'.  
4. Display the details of book at location 3<sup>rd</sup>.
- Q.3** Viva + Journal **05**

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**2411000902011002-F**  
**EXAMINATION APRIL - 2025**  
**BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)**  
**(SECOND SEMESTER)**  
**BCA SEM-2 (PRACTICAL -204) PROG - SKILL**

[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 APPLICATIONS (PRACTICAL) (SECOND SEMESTER)**
  - b. Name of the Subject: **BCA SEM-2 (PRACTICAL -204) PROG - SKILL**
  - c. Subject Code No: **2411000902011002-F**
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:

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Student's Signature

- Q.1** Write a C program to perform matrix addition of two 3x3 matrices. **10**
- Q.2** Write a Python program that accept a line of text (which consist of multiple words) from input device. Remove duplicate characters from it and make a line of text unique. **10**
- Q.3** Viva + Journal **05**

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**2411000902022002-A**  
**EXAMINATION APRIL – 2025**  
**BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)**  
**(SECOND SEMESTER)**  
**BCA SEM-2 (PRACTICAL -205) CRDMS**

[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 APPLICATIONS (PRACTICAL) (SECOND SEMESTER)**
- b. Name of the Subject : **BCA SEM-2 (PRACTICAL -205) CRDMS**
- c. Subject Code No : **2411000902022002-A**

- 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:

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Student's Signature

**Q.1**      A. Create following tables with appropriate constraints with primary key      **10**  
and foreign key. Insert minimum 5 records in each table.

account (account\_no, acct\_name, balance)

transaction (trans\_Id, account\_no, trans\_type, amount, trans\_date)

**B.** Write a PL/SQL block to withdraw a specified amount from a bank      **10**  
account, updating the balance. If the new balance after the withdrawal  
goes below 5000, raise an error.

**Q.2**      Viva + Journal      **5**

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**2411000902022002-B**  
**EXAMINATION APRIL - 2025**  
**BACHELOR OF COMPUTER APPLICATIONS (NCF-NEP)**  
**(SECOND SEMESTER)**  
**BCA SEM-2 (PRACTICAL -205) CRDMS**

[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 APPLICATIONS (NCF-NEP) (SECOND SEMESTER)**
- b. Name of the Subject : **BCA SEM-2 (PRACTICAL -205) CRDMS**
- c. Subject Code No : **2411000902022002-B**

- 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:

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Student's Signature

**Q.1**      A. Create following tables with appropriate constraints with primary key      **10**  
and foreign key. Insert minimum 5 records in each table.

dept (dept\_no, dept\_name)

emp (emp\_no, dept\_no, emp\_name, emp\_salary)

B. Write a PL/SQL block that take input of department name from user and      **10**  
display name of employee whose salary is maximum in that department.

**Q.2**      Viva + Journal      **5**

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**2411000902022002-C**  
**EXAMINATION APRIL - 2025**  
**BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)**  
**(SECOND SEMESTER)**  
**BCA SEM-2 (PRACTICAL -205) CRDMS**

[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 APPLICATIONS (PRACTICAL) (SECOND SEMESTER)**
  - b. Name of the Subject: **BCA SEM-2 (PRACTICAL -205) CRDMS**
  - c. Subject Code No: **2411000902022002-C**
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:

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Student's Signature

- Q.1**      A. Create following tables with appropriate constraints with primary key and foreign key. Insert minimum 5 records in each table. **10**  
bank (bank\_id, Bank\_Name, address)  
Customer (cust\_id, account\_no, bank\_id, cust\_name, balance, phone\_no)
- B. Write a PL/SQL block that accept customer ID and withdraw specific amount from his account, if the new updated balance after the withdrawal goes below Rs. 2000, raise an exception. **10**
- Q.2**      Viva + Journal **05**

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**2411000902022002-D**  
**EXAMINATION APRIL - 2025**  
**BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)**  
**(SECOND SEMESTER)**  
**BCA SEM-2 (PRACTICAL -205) CRDMS**

[Time: As Per Schedule]

[Max. Marks: 25 ]

**Instructions:**

**1. Fill up strictly the following details on your answer book**

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  - b. Name of the Subject: **BCA SEM-2 (PRACTICAL -205) CRDMS**
  - c. Subject Code No: **2411000902022002-D**
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:

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Student's Signature

- Q.1**      A. Create following tables with appropriate constraints with primary key and foreign key. Insert minimum 5 records in each table. **10**  
Distributor (Dno, D\_Name, phno)  
Item (Item\_no, Dno, item\_name, qty, rate)
- B. Write a PL/SQL block that accept distributor no and display its details with item details he distributes. **10**
- Q.2**      Viva + Journal **05**

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**2411000902022002-E**  
**EXAMINATION APRIL - 2025**  
**BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)**  
**(SECOND SEMESTER)**  
**BCA SEM-2 (PRACTICAL -205) CRDMS**

[Time: As Per Schedule]

[Max. Marks: 25 ]

**Instructions:**

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  - b. Name of the Subject: **BCA SEM-2 (PRACTICAL -205) CRDMS**
  - c. Subject Code No: **2411000902022002-E**
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:

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Student's Signature

- Q.1**      A. Create following tables with appropriate constraints with primary key and foreign key. Insert minimum 5 records in each table. **10**  
Stud (roll\_no, name, gender, mobileNo)  
stud\_result (roll\_no, mark1, mark2, mark3, mark4)
- B. Write a PL/SQL block that accept Roll no as input, calculate total marks, and percentage of that student. Display student mark sheet. **10**
- Q.2**      **Viva + Journal** **05**

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**2411000902022002-F**  
**EXAMINATION APRIL - 2025**  
**BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)**  
**(SECOND SEMESTER)**  
**BCA SEM-2 (PRACTICAL -205) CRDMS**

[Time: As Per Schedule]

[Max. Marks: 25 ]

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2. Sketch neat and labelled diagram wherever necessary.
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Seat No:

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Student's Signature

- Q.1**      A. Create following tables with appropriate constraints with primary key and foreign key. Insert minimum 5 records in each table.      **10**
- Distributor (Dno, D\_Name, phno)  
Item (Item\_no, Dno, item\_name, price)  
Dist\_item (Dno, item\_no, qty)
- B. Write a PL/SQL block that accept Item no and display its distributors details.      **10**
- Q.2**      **Viva + Journal**      **05**

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