

2411000902010011 / 2411000902011001 / 2511001302011001

EXAMINATION MARCH 2025

BACHELOR OF COMPUTER APPLICATIONS (NCP-NEP) /
BACHELOR OF SCIENCE (DATA SCIENCE AND ANALYTICS)
(SECOND SEMESTER)

MAJOR-1-204 PROGRAMMING SKILLS (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) (SECOND SEMESTER)**

b. Name of the Subject : **MAJOR-1-204 PROGRAMMING SKILLS (TH)**

c. Subject Code No : **2411000902010011 / 2411000902011001 / 2511001302011001**

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 Answer any 5 multiple choice question

05

1. In C, if 3x3 2D integer array is stored as row major with base address 1000 and each element occupy 2 bytes of memory. What will be the address of an element [1][2]?

(a) 1010

(b) 1000

(c) 1005

(d) 1008

2. Consider the following declaration statement.

int addition (int, float);

Which of the following is the correct category of function?

(a) Function with Argument without return value

(b) Function without Argument with return value

- (c) Function with Argument with return value
- (d) Function without Argument without return value

3. In python, which of the following is not valid data type?

- (a) str
- (b) int
- (c) complex
- (d) character

4. What is the output of the following statement?

`print (9//2)`

- (a) 4
- (b) 4.5
- (c) 4.0
- (d) 5

5. Which statement is used to skip part of loop?

- (a) break
- (b) continue
- (c) go
- (d) for

6. Suppose list1 is [3, 5, 25, 1, 3], what is min(list1)?

- (a) 3
- (b) 5
- (c) 25
- (d) 1

7. In Python, a set is enclosed by _____ where each element is separated by a comma.

- (a) []
- (b) ()
- (c) { }
- (d) * *

Q.2 A. Explain basic concept of structure with example. **04**

OR

How to pass argument in user defined function? Discuss call by reference in detail.

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B. Discuss data types of python. **04**

OR

How to create user defined function in python. Explain it with example.

Q.3 A. Explain any 4 string methods of python with example. **04**

OR

Explain identity and member operator of python in detail.

B. Discuss any two iterative statements of python. **04**

OR

What is List? How to create list in python? How to access list members? Explain each with example.

Q.4 A. What is Dictionary? Explain any 4 methods of Dictionary with example. **04**

OR

Write a note on NumPy with its methods. Explain how to create array using it.

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Q.4 What is the structure of a PL/SQL block? Discuss the importance of the DECLARE, BEGIN, and EXCEPTION sections.

OR

Explain the "IF...ELSE" structure in PL/SQL. Provide an example that checks multiple conditions using "IF...ELSE".

2411000902022001 / 2511001302022001 / 241100090202002
EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATIONS (NCP-NEP) /
BACHELOR OF SCIENCE (DATA SCIENCE AND ANALYTICS)
(SECOND SEMESTER)
MAJOR-2-205 CONCEPTS OF RELATIONAL DATABASE
MANAGEMENT SYSTEMS(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 APPLICATIONS (NCP-NEP) / BACHELOR OF SCIENCE (DATA SCIENCE AND ANALYTICS) (SECOND SEMESTER)
 - b. Name of the Subject : MAJOR-2-205 CONCEPTS OF RELATIONAL DATABASE MANAGEMENT SYSTEMS(TH)
 - c. Subject Code No : 2411000902022001 / 2511001302022001 / 2411000902020021
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 Answer following: (Any Five)

5

1. Which of the following operations is part of relational algebra?
 - a) Select
 - b) Update
 - c) Insert
 - d) Delete
2. In Codd's Rules, Rule 9 deals with:
 - a) The treatment of null values
 - b) The integrity of data
 - c) Redundancy control
 - d) Data independence

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Q.4 What is the structure of a PL/SQL block? Discuss the importance of the DECLARE, BEGIN, and EXCEPTION sections. 4

OR

Explain the "IF...ELSE" structure in PL/SQL. Provide an example that checks multiple conditions using "IF...ELSE".

2411000902022001 / 2511001302022001 / 241100090202002
EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATIONS (NCP-NEP) /
BACHELOR OF SCIENCE (DATA SCIENCE AND ANALYTICS)
(SECOND SEMESTER)
MAJOR-2-205 CONCEPTS OF RELATIONAL DATABASE
MANAGEMENT SYSTEMS(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 APPLICATIONS (NCP-NEP) / BACHELOR OF SCIENCE (DATA SCIENCE AND ANALYTICS) (SECOND SEMESTER)
 - b. Name of the Subject : MAJOR-2-205 CONCEPTS OF RELATIONAL DATABASE MANAGEMENT SYSTEMS(TH)
 - c. Subject Code No : 2411000902022001 / 2511001302022001 / 2411000902020021
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 Answer following: (Any Five)

5

1. Which of the following operations is part of relational algebra?
 - a) Select
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2. In Codd's Rules, Rule 9 deals with:
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 - c) Redundancy control
 - d) Data independence

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[1 of 4]

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3. The purpose of the "ROLLBACK" command is:
 - a) To finalize the transaction
 - b) To undo changes made during the transaction
 - c) To save the transaction
 - d) To execute a commit

4. The DCL command "REVOKE" is used to:
 - a) Grant privileges to a user
 - b) Remove privileges from a user
 - c) Create a new user
 - d) Display user information

5. Which operation in relational algebra returns a set of attributes from a relation?
 - a) Select
 - b) Project
 - c) Union
 - d) Rename

6. Which SQL join type will include unmatched rows from the left table only?
 - a) Inner Join
 - b) Left Outer Join
 - c) Right Outer Join
 - d) Full Outer Join

7. The "NEXT_DAY" function in SQL is used to:
 - a) Return the next day after a given date
 - b) Return the previous day from a date
 - c) Convert a date into a string
 - d) Calculate the day of the week

8. Which datatype in SQL is used to store large text data?
 - a) VARCHAR2
 - b) CLOB
 - c) NUMBER
 - d) DATE

Q.2 [A] Explain the relational operations in relational algebra: Select, Project, and Rename giving suitable example. 4

OR

[A] Discuss any four of Codd's rules with relevance to modern RDBMS Systems.

[B] Explain purpose of Transaction Control Language (TCL). Discuss the usage of COMMIT, SAVEPOINT, and ROLLBACK with examples. 4

OR

[B] What is Data Control Language (DCL)? Explain the GRANT and REVOKE commands in SQL with examples and discuss their role in database security.

Q.3 [A] Explain the different SQL data types: VARCHAR2, NUMBER, and DATE. How are they used in the creation of database tables? 4

OR

[A] What is the significance of the DUAL table in Oracle SQL? Provide examples of using the DUAL table in queries.

[B] Write SQL queries for Left Outer Join between two tables. 4

OR

[B] Explain the usage of the "EXIT" statement in loops. Write an example of using "EXIT" to break out of a loop under a specific condition.

OR

A) Answer the following questions:

10

- 1) Write a note on version of Linux OS.
- 2) Explain Free Space Management.

B) Answer the following questions:

6

- 1) Explain Components of Linux OS.
- 2) Explain advantage of any one allocation method of disk in detail.

OR

B) Answer the following questions:

6

- 1) Explain system configuration services of Linux.
- 2) Explain Indexed Allocation Method in detail.

Q.4 Do as Directed

8

1. Suppose that a disk drive has 200 cylinders, numbered 0 to 199. The disk drive is currently serving at cylinder 35, the queue of pending request, in FIFO order is 155, 120, 12, 180, 73, 5, 125, 148, 190, 50, 47, 23
Show the disk scheduling for the following algorithms?
(1) FCFS (2) LOOK (3) SSTF (4) SCAN

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EXAMINATION MARCH 2025

BACHELOR OF COMPUTER APPLICATION (NCF-NEP)

(SECOND SEMESTER)

MINOR-203 OPERATING SYSTEM

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination : BACHELOR OF COMPUTER APPLICATION (NCF-NEP) (SECOND SEMESTER)
 - b. Name of the Subject : MINOR-203 OPERATING SYSTEM
 - c. Subject Code No : 2511000902030002
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.
5. Write to the point

Seat No:

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Student's Signature

Q.1 A) Choose the correct options. (Any Five)

5

1. _____ is the time to move the arm to the proper cylinder.
 - a. Rotational Delay
 - b. Data Transfer
 - c. Rate
 - d. Seek Time
2. Which is the Linux operating system?
 - a. Private Operating System
 - b. Windows Operating System
 - c. Open Source Operating System
 - d. None of these
3. Who is the founder of Linux Kernel?
 - a. Ken Thompson
 - b. Richard Stallman
 - c. Dennis Ritchie
 - d. Linus Torvalds

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4. Which of the following is a single-user operating system?
- a. Windows
 - b. MAC
 - c. MS-DOS
 - d. None of these
5. What is the use of directory structure in the operating system?
- a. The directory structure is used to solve the problem of the network Connection in OS.
 - b. It is used to store folders and files hierarchically.
 - c. It is used to store the program in file format.
 - d. All of these
6. Which of the following file systems is supported by the windows OS?
- a. NIFS
 - b. FAT32
 - c. exFAT
 - d. All of these
7. Which method is the best among file allocation methods?
- a. Linked
 - b. Indexed
 - c. Contiguous
 - d. None of these

B) Answer the following questions: (Any Five)

5

1. List out attributes of file.
2. List out the basic features of Linux.
3. What is the primary goal of OS?
4. What do you mean by block device?
5. Explain the role of kernel in Linux.
6. Define absolute path in os.
7. Define Seek time.

Q.2 A) Answer the following questions:

10

1. Explain Batch Operating System with its advantages and drawbacks.
2. What is File? Explain different File Operations.

OR

A) Answer the following questions:

10

1. Discuss two-level directory structure in detail. Also discuss advantages of two-level directory structure over single-level.
2. Write a note on Multiuser Operating System with advantages and disadvantages.

B) Answer the following questions:

6

1. Explain Spooling in detail.
2. What is file and also explain File Attributes in detail.

OR

B) Answer the following questions:

6

1. Explain Time Sharing System.
2. Explain Sequential Access And Relative Access of File in OS.

Q.3 A) Answer the following questions:

10

- 1) Write a note on how to manage user account in Linux.
- 2) List and explain different characteristics of I/O devices.

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EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATION (NCF-NEP)
(SECOND SEMESTER)
MDC-COMPUTERIZED FINANCIAL ACCOUNTING

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATION (NCF-NEP) (SECOND SEMESTER)**
 - b. Name of the Subject : **MDC-COMPUTERIZED FINANCIAL ACCOUNTING**
 - c. Subject Code No : **2411000902040001**
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 Answer Any 7

14

1. What do you mean by Cost accounting?
2. List down the types of real accounts
3. What are the rules of Debit and Credit?
4. Give the meaning of book-keeping
5. What is non-economic transaction?
6. What is Trade discount?
7. What is Bad Debt?

8. Classify the following account into Real, Personal & Nominal Account:

- | | |
|------------|---------------|
| 1. Cash | 2. Commission |
| 3. Drawing | 4. Salary |

9. Give the definition of journal.

Q.2 Enter the following transactions of Shri Ram in his Journal:

12

July 2022

- 1: Opened a bank account with ₹10,000.
- 2: Received a cheque from Krishna ₹ 5,000.
- 3: Cheque received from Krishna is paid into bank.
- 4: Received a crossed cheque from Gopal ₹20,000, which was paid into bank.
- 5: A machine was purchased for ₹50,000 and paid for it by a cheque. The installation charges of the machine ₹ 1,000 is paid in cash.
- 6: Sold goods for cash ₹2,000 and paid half the amount into the bank.
- 7: Withdrawn ₹1,000 for personal use and ₹ 2,000 for office use from bank.
- 8: Given a cheque of ₹5,000 to Jagannath on account.
- 9: Paid ₹8,000 for salary in cash and fire insurance premium ₹12,000 by a cheque.
- 10: Bank has debited ₹50 to our account for bank charges and credited ₹100 for interest.
- 11: Given a cheque of ₹11,500 to Kanaiya in full settlement of our dues of ₹11,000 to him.

OR

From the following transactions, prepare petty cash book of Shri Prithvi as per petty imprest system: **12**

2020

1. Cash received from the chief cashier ₹ 5000.

2. ₹500 for printing charges of bill book and ₹350 for other stationery items are paid.
5. Postage expenses paid ₹200.
7. Carriage ₹50 and wages of ₹50 paid.
10. ₹100 is paid to Brij towards salary.
12. ₹200 is given to Sanju for the payment of misc. expenses.
18. Carriage of ₹50 and stationery expenses of ₹300 are paid.
20. ₹ 100 paid for misc. expenses.
24. ₹ 80 paid for postal stamps.
28. ₹ 350 for wages and 70 for misc. expenses are paid.

Q.3 From the following transactions of Shri Sharvil Shah, prepare his three 12 columnar Cash book:

June

2022

- 1: Cash on hand ₹4,500 and Bank balance ₹24,000.
- 3: Cash sales ₹15,000 and Cash purchases ₹3,000.
- 5: Received a crossed cheque of ₹10,000 against a bill receivable on presentation on the date of maturity.
- 7: A creditor Shri Lalit was paid ₹5,000 at a cash discount of 2% by a cheque.
- 8: A thousand-rupee note was exchanged for change, from which a fifty-rupee note was found to be duplicate.
- 9: Goods worth ₹20,000 was purchased from Pathik at 10% trade discount and 5% cash discount and the amount was paid by a cheque.
- 11: A cheque of ₹7,500 deposited in the bank was received from Dinesh in full settlement of his account. His account showed a debit balance of ₹7,600.
- 12: Purchased a machine of ₹13,000 and paid ₹500 for installation charges and sold old furniture for 1,500.
- 15: Withdrew from the bank ₹2,000 for office expenses and ₹1,500 for personal use.

- 17: Paid salary to clerk ₹1,500 in cash and paid daughter's college fees ₹2,200 by a cheque.
- 18: A cheque received from Dinesh and deposited in the bank was dishonored. In return, cash was received immediately.
- 20: Interest credited by bank ₹100.
- 30: ₹4,500 cash was kept on hand and the remaining amount was deposited in the bank.

OR

12

The following list of balances, prepare a Trail balance as on 31st March 2024

Name of the Accounts	₹
Opening Stock	10000
Machinery	2000
Creditors	10000
Bank overdraft	6000
Purchases	10000
Discount Allowed	100
Sales	20000
Loan from Z	2000
Cartage Inwards	1000
Investments	4000
Returns Inwards	100
Returns Outwards	200
Insurance premium	300
Interest on loan	200
Capital	23100
Furniture	20000
Debtors	10000
Salary	2000
Interest on investment	400
Advertisement	1000
Drawings	1000

Q.4 Write short notes on (Any Two)

12

1. Branches of Accounting
2. Accounting equation
3. Features of Book-Keeping

B. Answer the following

1. Explain Democratic leadership style.
2. "Motivation is not one-shot activity" - Justify

OR

1. Explain personal skills of leader.
2. Explain Maslow's need hierarchy.

Q.4 A. Answer the following

1. Explain benefits of out-sourcing.

OR

1. What is the process of setting up a Call Centre?

B. Answer the following

1. Explain various functions of call center.

OR

1. What are the different types of BPO services?

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EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATION (NCF-NEP)
(SECOND SEMESTER)
MDC-202-02 ORGANIZATIONAL STRUCTURE & BEHAVIOUR

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:
1. Fill up strictly the following details on your answer book
a. Name of the Examination: BACHELOR OF COMPUTER APPLICATION (NCF-NEP) (SECOND SEMESTER)
b. Name of the Subject: MDC-202-02 ORGANIZATIONAL STRUCTURE & BEHAVIOUR
c. Subject Code No: 2411000902040002
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

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Student's Signature

Q.1 A. Solve the Following (Any 5)

5

1. What makes an organization?
 - a) A group of people working together to achieve a common goal
 - b) A legal entity that exists to make a profit
 - c) A collection of departments that report to each other
 - d) A person who makes all the decisions
2. Attitudes can be formed based on:
 - a) Personal experiences
 - b) Social interactions
 - c) Cultural influences
 - d) All of the above
3. What is the primary function of a call center?
 - a) Product development
 - b) Customer support and service
 - c) Financial forecasting
 - d) Internal employee training

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4. What is one benefit of a highly motivated workforce?
 - a) Decreased organizational commitment
 - b) Lower levels of employee engagement
 - c) Enhanced performance and lower absenteeism
 - d) Increased resistance to change

5. Which leadership style is characterized by a high level of participation and collaboration with team members?
 - a) Autocratic
 - b) Laissez-faire
 - c) Democratic
 - d) Transformational

6. Which of the following is NOT typically considered a characteristic of effective leaders?
 - a) Empathy
 - b) Inflexibility
 - c) Integrity
 - d) Vision

7. Which of the following are Managerial Skills?
 - a) Technical skills, human skills, and conceptual skills
 - b) Leadership skills, communication skills, and problem-solving skills
 - c) Organizational skills, planning skills, and budgeting skills
 - d) Marketing skills, selling skills, and negotiating skills

B. Answer the following in brief.

5

1. Define Motivation?
2. Enlist various Interpersonal roles of manager.
3. What do you mean by term Leadership?
4. List out various factors responsible in Attitude formation.
5. What is Out-Sourcing?

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Q.2 A. Answer the following

10

1. Explain significance of organization.
2. Two persons working in same organization may have different attitudes - Explain the same in reference to attitude formation.

OR

1. Explain various managerial skills in detail.
2. Explain various functions of Attitude.

B. Answer the following

6

1. Enlist and explain Decisional Roles of manager.
2. Explain the characteristics of Attitude.

OR

1. Explain functions of management.
2. Explain Attitude, Opinion and Belief.

Q.3 A. Answer the following

10

1. Enlist and explain various characteristics of Leader.
2. Explain importance of motivation.

OR

1. Explain Trait theory of Leadership.
2. Explain carrot and stick approach of motivation in short.

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Gujarati Version [Max. Marks: 25]

પ્ર.૧. 7-MCQ (દરેકનો ૨ માર્ક્સ) (૭ માંથી કોઈ પણ ૫) (10)

- શિયાળ વાદળી થઈ ગયા પછી ફતરાઓ તેને ઓળખી કેમ ન શક્યા?
(A) તેમની દૃષ્ટિ નબળી હતી
(B) શિયાળે તેનો દેખાવ બદલ્યો
(C) તેઓ વાદળી રંગથી ડરતા હતા
(D) શિયાળ ખૂબ ઝડપથી ભાગી ગયો
- સત્યકામે કઈ રીતે ગુરુની આજ્ઞાનું પાલન કર્યું?
(A) હઠ જરીને (B) સામે બોલીને
(C) વિનમ્રતા પૂર્વક (D) જીદથી
- બીજા ધુતારાના દાવા પર બ્રાહ્મણે કેવી પ્રતિક્રિયા આપી?
(A) તે સંમત થયો અને બકરીને છોડી દીધી
(B) તે ગુસ્સે થયો અને દલીલ કરી
(C) તે ફસી પડ્યો
(D) તેણે સલાહ માટે ઠગનો આભાર માન્યો

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EXAMINATION MAR-APR - 2025
BACHELOR OF COMPUTER APPLICATION
(NCF-NEP) (SECOND SEMESTER)
VAC-VALUE EDUCATION IN BHARATIYA
KNOWLEDGE SYSTEM

[Time: As Per Schedule]

Instructions:

- નીચે દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the following details on your answer book
- a. Name of the examination : B.C.A. (NCF-NEP) (SEM. II)
- b. Name of the Subject : VAC-VALUE EDUCATION IN BHARATIYA KNOWLEDGE SYSTEM
- c. Subject Code No : 2411000902070001
2. Sketch neat and labelled diagram wherever necessary
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

[Max. Marks: 25]

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Student's Signature

English Version [Max. Marks: 25]

Q.1. 7-MCQ (2 Marks each) (Any 5 out of 7) (10)

- Why were the dogs unable to recognize the jackal after he turned blue?
(A) They had poor eyesight
(B) The jackal changed its appearance
(C) They were scared of the blue color
(D) The jackal ran away too quickly
- How did Satyakam obey the Guru's command?
(A) Through stubbornness (B) Speaking against
(C) Humbly (D) Stubbornly

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3. How did the Brahmin react to the second crook's claim?
 (A) He agreed and left the goat
 (B) He got angrier and argued
 (C) He laughed it off
 (D) He thanked the crook for the advice
4. What did the fox make the rabbit?
 (A) Servant (B) Owner
 (C) Laborer (D) Runner
5. What was the ultimate goal of Satyakama's journey according to Vedic texts?
 (A) Wealth and prosperity
 (B) Fame and recognition
 (C) Liberation or moksha
 (D) Physical strength and health
6. In how many stages is the knowledge of Brahm divided?
 (A) Two (B) Four
 (C) Three (D) Seven
7. How did the king initially respond to the claim that the young boy was his son?
 (A) He happily accepted the child.
 (B) He denied being the father out of embarrassment.
 (C) He immediately recognized the boy.
 (D) He embraced the firewood woman as his queen.

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[2 of 6]

X211YFE6E87X211YFE6E87X211YFE6E87X211YFE6E87

Q.2. Write Following Answers (15)

Q.2. (a) Write a short note (Any 1 out of 2) (05)

1. Introduce *Asteya* and *Brahmacharya*.
2. Describe the essence of the story of Satyakam.

Q.2. (b) Answer in Detail (Any 1 out of 2) (05)

1. Describe me about self-study.
2. Describe the power of truth as manifested in 'Little Prince- No-Father

Q.2. (c) Explain Subhashit (Any 1 out of 2) (05)

1. उदयमेन हि सिध्यन्ति कार्याणि न मनोरथैः।
न हि सुमस्य् सिंहस्य प्रविशन्ति मुखे मृगाः॥
2. न राज्यं न राजाऽआसीत् न दण्डयो न च दाण्डिकः।
धर्मेणैव प्रजास्सर्वा रक्षन्तस्म परस्परम्॥

2411000902070001

[3 of 6]

X211YFE6E87X211YFE6E87X211YFE6E87X211YFE6E87

4. શિયાળે સસલાને શું બનાવ્યા?

(A) સેવક

(B) માલિક

(C) મજુર

(D) દોડવીર

5. વૈદિક ગ્રંથો અનુસાર સત્યકામની યોગ્યતા અતિમહત્વ શું હતું?

(A) સંપત્તિ અને સમૃદ્ધિ

(B) ખ્યાતિ અને માન્યતા

(C) મુક્તિ, અથવા મોક્ષ

(D) શારીરિક શક્તિ અને આરોગ્ય

6. બ્રહ્મજ્ઞાન કેટલા પાદમાં વહેંચાયેલું છે?

(A) બે

(B) ચાર

(C) ત્રણ

(D) સાત

7. યુવાન છોકરો તેનો પુત્ર હોવાના ધ્રુવા પર રાજા એ શરૂઆતમાં કેવી પ્રતિક્રિયા આપી?

(A) તેણે ખુશીથી બાળકનો સ્વીકાર કર્યો.

(B) તેણે શરમમાં પિતા હોવાનો ઇનકાર કર્યો.

(C) તેણે તરત જ છોકરાને ઓળખી લીધો.

(D) તેણે લાકડા એકત્ર કરતી સ્ત્રીને તેની રાણી તરીકે સ્વીકારી.

પ્ર.ર. નીચેના જવાબો લખો

પ્ર.ર. (અ) ટૂંકનોંધ લખો (૨ માંથી કોઈ પણ ૧)

1. અસ્તેય અને બ્રહ્મચર્યનો પરિચય આપો.

2. સત્યકામની વાતી નો સંસ્કાર વર્ણવો.

પ્ર.ર. (બ) સવિસ્તાર પ્રશ્નરે માંથી કોઈ પણ ૧)

1. સ્વાધ્યાય વિશે જણાવો.

2. 'લીટલ પિન્સનો' કાથરમાં પ્રગટ થતી સત્ય અને શક્તિનું નિરૂપણ કરો.

પ્ર.ર. (ક) સુભાષિત-સમજાવો (૨ માંથી કોઈ પણ ૧)

1. ઉદયમેન હિ સિદ્ધ્યન્તિ કાર્યાણિ ન મતોરથૈઃ।

ન હિ સુમસ્ય સિંહસ્ય પ્રવિશન્તિ મુખે મૃગાઃ ॥

2. ન રાજ્યં ન રાજાઽઆસીત્ ન વેદવ્યયો ન ચ વાણિકઃ।

ધર્મેણૈવ પ્રજાસસૈવો રક્ષન્ત સ્મ પરસ્પરમ્ ॥

***** END *****

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:

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-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:

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-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:

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-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**

- 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-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:**

**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-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 ]

**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-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**      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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