

2311000901010012-A
EXAMINATION APRIL - 2024
BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)
(FIRST SEMESTER)
BCA (PRACTICAL -104) CPPM

[Time: Two Hours]

[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) (FIRST SEMESTER)**
 - b. Name of the Subject : **BCA (PRACTICAL -104) CPPM**
 - c. Subject Code No : **2311000901010012-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 program to print

20

```
    1
   1 2
  1 2 3
 1 2 3 4
1 2 3 4 5
```

Q.2 Viva + Journal

5

2311000901020022-A
EXAMINATION APRIL -2024
BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)
(FIRST SEMESTER)
BCA (PRACTICAL -105) DPA
Data Processing & Analysis (DPA)

[Time: Two Hours]

[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) (FIRST SEMESTER)**
 - b. Name of the Subject : **BCA SEM-1 (PRACTICAL -105) DPA**
 - c. Subject Code No : **2311000901020022-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 a Sales report On the following details in Spreadsheet. (Salesman No, Name, City, Product, Price Per Unit, Qty) **10**

Instruction:

- Enter 5 Records.
- Product must be one of TV, MOBILE, LAPTOP or AC.
- Calculate Sal_price using following formula. (Price Per Unit * Qty).
- Create a 3D Pie chart to show Product details.

- B. Create Employee table with appropriate constraint and add minimum five records in this table: **10**

Emp_id, Emp_name, Joining_date, Designation, salary
Perform Following Queries:

1. Insert 5 records
2. Display details of employee who join between 1/1/1980 to 1/1/2010.
3. Display Detail of employee whose name contain 'A' as a second character.

Q.2 Viva + Journal

5

2311000901010012-B
EXAMINATION APRIL - 2024
BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)
(FIRST SEMESTER)
BCA (PRACTICAL -104) CPPM

[Time: Two Hours]

[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) (FIRST SEMESTER) b. Name of the Subject : BCA (PRACTICAL -104) CPPM c. Subject Code No : 2311000901010012-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.	<p style="text-align: center;">Seat No:</p> <table border="1" style="width: 100%; height: 40px; border-collapse: collapse;"><tr><td style="width: 25%;"></td><td style="width: 25%;"></td><td style="width: 25%;"></td><td style="width: 25%;"></td></tr></table> <p style="text-align: center;">Student's Signature</p>				

- Q.1** Write a program to print sum of all elements of 1-D array. **20**
- Q.2** Viva + Journal **5**

2311000901010012-A
EXAMINATION APRIL 2024
BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)
(FIRST SEMESTER)
BCA SEM-1 (PRACTICAL -104) CPPM & BCA SEM-1
(PRACTICAL -105) DPA

[Time: Two Hours]

[Max. Marks: 20]

Instructions:

- 1. 1. Fill up strictly the following details on your answer book**
 - a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL) (FIRST SEMESTER)**
 - b. Name of the Subject : **BCA SEM-1 (PRACTICAL -104) CPPM & BCA SEM-1 (PRACTICAL -105) DPA**
 - c. Subject Code No : **2311000901010012-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

SECTION – I

- Q.1** Write a C program to input any alphabet and check whether it is vowel or consonant. **20**

2311000901010012-B
EXAMINATION APRIL 2024
BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)
(FIRST SEMESTER)
BCA SEM-1 (PRACTICAL -104) CPPM & BCA SEM-1
(PRACTICAL -105) DPA

[Time: Two Hours]

[Max. Marks: 20]

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 - c. Subject Code No : **2311000901010012-B**
2. Sketch neat and labelled diagram wherever necessary.
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4. All questions are compulsory.

Seat No:

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Student's Signature

SECTION – I

Q.1 Write a program to print generate following pattern.

20

```
1 2 3
1 2
1
```

2311000901020022-A
EXAMINATION APRIL2024
BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)
(FIRST SEMESTER)
BCA SEM-1 (PRACTICAL -104) CPPM & BCA SEM-1
(PRACTICAL -105) DPA

[Time: Two Hours]

[Max. Marks: 30]

Instructions:

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 - a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL) (FIRST SEMESTER)**
 - b. Name of the Subject : **BCA SEM-1 (PRACTICAL -104) CPPM & BCA SEM-1 (PRACTICAL -105) DPA**
 - c. Subject Code No : **2311000901020022-A**
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4. All questions are compulsory.

Seat No:

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Student's Signature

SECTION – II

Q.1 Create Excel sheet for the following fields:

10

Sales Report of Vijay Sales

Product	Surat	Bardoli	Navsari	Price per unit	Total Item	Total Price
Washing Machine	1100	400	625	35000		
TV	1245	575	720	18000		
Refrigerator	1620	1140	950	37000		

- a) Enter minimum 5 records.
- b) Calculate Total Item and Total Price (Price* Total Item).
- c) Apply red color to those items where total item sold greater than 2200.

- Q.2** Create table booking with the following fields and constraints. **10**
(booking_id, cust_name, room_no, room_type, rate, checkin_date, checkout_date)
Constraint:
Booking_id must be unique.
- a) Insert minimum 5 records in the table.
 - b) Display the customers who checked in between 01-jan-2023 to 20-jan-2023 and room type is "deluxe".

- Q.3** Viva + Files **10**

2311000901020022-B
EXAMINATION APRIL 2024
BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)
(FIRST SEMESTER)
BCA SEM-1 (PRACTICAL -104) CPPM & BCA SEM-1
(PRACTICAL -105) DPA

[Time: Two Hours]

[Max. Marks: 30]

Instructions:

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 - b. Name of the Subject : **BCA SEM-1 (PRACTICAL -104) CPPM & BCA SEM-1 (PRACTICAL -105) DPA**
 - c. Subject Code No : **2311000901020022-B**
2. Sketch neat and labelled diagram wherever necessary.
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Seat No:

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Student's Signature

SECTION – II

Q.1 Create a worksheet of following fields and do the following operation in separate sheet: **10**

Emp_no	Emp_Name	Designation	Date_of_joining	Salary

1. Add at least ten records.
2. Find out most experience employees and apply blue color to that record.
3. Find record of those employees whose joining date is between 1/1/2020 to 31/12/2021.
4. Sort the record designation wise and calculate subtotal designation wise.

Q.2 Create database with following fields and do the followings. **10**
tblVehicles (Vehicle_Id, Vehicle_Name, Category (Two_wheeler, Car),
Manufacturer, Fuel_type (Petrol, Diesel, Battery), Color, Price)

1. Insert 10 records using insert statement.
2. Display vehicles details by its Fuel type wise.

Q.3 Viva + Files **10**

5. Which worksheet function determines whether a condition is true or false?
- A. If
B. Sum
C. Count
D. Max
6. What will be the output of =AND (10 < 12; 54 > 25)?
- A. TRUE
B. FALSE
C. YES
D. NO
7. Which feature in worksheet used to add page number, date and other information to the top or bottom of each printed page?
- A. Insert Textbox
B. Header & Footer
C. Format Painter
D. Insert Symbol
8. Which is the short cut key for spelling check in worksheet?
- A. F3
B. F5
C. F7
D. F1
9. What is the full form is CSV?
- A. Common Separated Value
B. Comma Special Value
C. Comma Separated Value
D. Consolidate Separate Value
10. How data can be rearranged in ascending or descending order in worksheet?
- A. Data, Form
B. Data, Sort
C. Data, Table
D. Format, Chart
11. Which function returns the number of days between two dates based on 360 days per year?
- A. days ()
B. days360()
C. now ()
D. date_diff ()
12. Which features in worksheet allows you to copy formatting from one cell and apply it to another?
- A. Cut
B. Copy
C. Paste
D. Format Painter

Q.2 Answer the following: (Any Two) 14

- a) Explain Data Models in DBMS.
- b) Explain DBMS Keys with appropriate example.
- c) Explain various types of DBMS architecture.

Q.3 Answer the following: (Any Two) 14

- a) What is Normalization? Explain 1NF, 2NF, 3NF in details?
- b) What is Constrains? Explain different types of constrains with example.
- c) Explain SQL data types in detail.

Q.4 Answer the following: (Any Two) 14

1. Explain DDL, DML & DQL commands with appropriate examples.
2. Explain views of DBMS.
3. Draw an ER Diagram for "Hospital Management System".

Q.5 Solve following queries using SQL. (Any Four) 16

Consider the table to solve the queries.

Customer_Account (Account_No, Customer_No, Customer_Name, City, Account_Type, Balance)

1. Create specified table with appropriate constraints.
2. Display City Wise Total Number of Customers.
3. Write a query to display customer who has Balance less than Rs. 10,000.
4. Display the Customer details whose name has first character as 'A'.
5. Display customer details in ascending order of their Account Balance.

6. Update balance of all customers Account balance by 2% raise.
7. Display customers details of whose account type is 'Savings'.

2311000901010011
EXAMINATION MARCH 2024
BACHELOR OF COMPUTER APPLICATIONS
(NCP-NEP) (FIRST SEMESTER)
MAJOR-104-COMPUTER PROGRAMMING & PROGRAMMING
METHODOLOGY (CPPM)(TH)

[Time: Two Hours]

[Max. Marks: 50]

Instructions:

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

- a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATIONS (NCP-NEP) (FIRST SEMESTER)**
 - b. Name of the Subject : **MAJOR-104-COMPUTER PROGRAMMING & PROGRAMMING METHODOLOGY (CPPM)(TH)**
 - c. Subject Code No : **2311000901010011**
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. Illustrate your answer with necessary example, if required.

Seat No:

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Student's Signature

Q.1 Answer following questions (Any 10)

10

1. A step-wise representation of a solution to a given problem is known as _____ .
(A) Algorithm (B) Flowchart
(C) Program (D) Source Code
2. Which is ternary operator?
(A) ? (B) <<
(C) ?: (D) &
3. 'break' statement is compulsory to write with switch.
(A) True (B) False
4. _____ returns the largest integer value less than or equal to x.
(A) ceil () (B) floor ()
(C) round () (D) exp ()
5. Range of int datatype is _____
(A) 0 to 256 (B) -65536 to 65535
(C) -32768 to 32767 (D) No limit

6. What is the output of following?

```
void main ()
{
    float i;
    i = 1 + (float) 5 / (int) 2.0;
    printf("%0.2f", i );
}
```

 (A) 0.2 (B) 3 (C) 3.50 (D) 3.00
7. In entry-controlled loop, condition is check at end of the loop.
 (A) True (B) False
8. What is the output of sizeof(float)?
 (A) 2 bytes (B) 4 bytes (C) 8 bytes (D) None of the above
9. Which function is used to display string?
 (A) getchar () (B) scanf()
 (C) putchar() (D) puts()
10. Which type specifier is used for double?
 (A) %lf (B) %ld
 (C) %L (D) %d

Q.2 Answer following questions (Any two) 14

1. Explain about datatypes in C.
2. Explain bitwise operators in detail.
3. Write about different forms of if statement.
4. Write about string functions.

Q.3 Answer following questions (Any two) 14

1. What is looping? Differentiate while and do-while loop.
2. Explain about character single dimensional array. Also write about its creation and use.
3. Explain about pointer.
4. Explain selection sort with example.

Q.4 Answer following questions (Any three) 12

1. Explain Jumping Statements.
2. Differentiate Source code and Object code.
3. How Array is different from Pointer?
4. Write an algorithm for checking the number is prime or not.
5. Write a program to find factorial of given number using for loop.

2311000901030001
EXAMINATION MARCH 2024
BACHELOR OF COMPUTER APPLICATIONS
(NCP-NEP) (FIRST SEMESTER)
MINOR-103-INTRODUCTION TO COMPUTERS

[Time: 02:30 Hours]

[Max. Marks: 50]

Instructions:

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

- a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATIONS (NCP-NEP) (FIRST SEMESTER)**
 - b. Name of the Subject : **MINOR-103-INTRODUCTION TO COMPUTERS**
 - c. Subject Code No : **2311000901030001**
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 the following.

10

1. Storage that retains its data after the power is turned off is referred to as
 - A. Direct storage
 - B. Sequential storage
 - C. Volatile storage
 - D. Non-volatile storage

2. The Boot sector files of the system are stored in which computer memory?
 - A. RAM
 - B. ROM
 - C. Cache
 - D. Register

3. The difference between Memory and storage is that memory is _____ and Storage is _____.
 - A. Temporary, Permanent
 - B. Permanent, Temporary
 - C. Slow, Fast
 - D. All of above

4. What does USB stand for?
 - A. Universal Signal Board
 - B. Universal Signal Bus
 - C. Universal Serial Bus
 - D. Universal Serial Board

5. Ultraviolet rays are used to erase the data of the chip before it is reprogrammed.
 - A. EPROM
 - B. EEPROM
 - C. CD
 - D. DVD

6. Web browser is useful for _____.
 - A. To open a website
 - B. For Downloading
 - C. For email
 - D. All of Above

7. _____ subsystem that transfer data between computer components inside a computer or between computers.
A. Chip B. Processor C. Register D. Bus
8. _____ is a technology that uses remote servers on the internet to store, manage, and Access data online rather than local drives.
A. Cloud B. Domain C. Router D. URL
9. Which of the following is not an operating system?
A. Windows B. Oracle
C. Linux D. DOS
10. Which is typically the Smallest: bit, byte, nibble, word?
A. Bit B. Byte C. Nibble D. Word

Q.2 Answer the following (Any Two) 14

- 1) Explain printers in Detail.
- 2) What do you mean by cloud? Explain various application of cloud. Discuss the Advantages and disadvantages of cloud.
- 3) What is ROM? List the types of ROM and Explain EPROM and EEPROM in detail.
- 4) Explain the Concept of online Data back up with suitable example.

Q.3 Answer the following (Any Two) 14

- 1) Write short Note.
 - a) Explain Web Browser
 - b) CRT Vs LCD
- 2) Write short Note.
 - a) Virtual Memory and Cache Memory
 - b) Explain URL with Example.
- 3) Describe a touch screen. Give its features and explain its working.
- 4) Explain Hard Disk in details.

Q.4 Answer the following (Any Four) 12

- 1) $(456)_{10} = (?)_2$
- 2) Subtract: $(1000111)_2$ from $(11110101)_2$
- 3) $(2654)_{10} = (?)_2$
- 4) $(10110111.101)_2 = (?)_{10}$
- 5) Add binary numbers $(11001111)_2$ and $(1111011)_2$
- 6) $(11010111)_2 = (?)_{10}$

2311000901040001
EXAMINATION MARCH 2024
BACHELOR OF COMPUTER APPLICATIONS
(NCP-NEP) (FIRST SEMESTER)
MDC-102-MATHEMATICS

[Time: Two Hours]

[Max. Marks: 50]

Instructions:

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

- a. Name of the Examination: **BACHELOR OF COMPUTER APPLICATIONS (NCP-NEP) (FIRST SEMESTER)**
 - b. Name of the Subject: **MDC-102-MATHEMATICS**
 - c. Subject Code No: **2311000901040001**
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 the following. (Any ten)

10

1. For any set A , $A \cap U = \underline{\hspace{2cm}}$, where U is an universal set.
2. If $A = \begin{bmatrix} 4 & 7 \\ -1 & -2 \end{bmatrix}$ then $\det(A) = \underline{\hspace{2cm}}$.
3. If $f(x) = 4x^2$ then what is value of $f(4) - f(-3)$
4. If $f: Q \rightarrow R$, $f(x) = 2x$ is a function then Co-domain of f is $\underline{\hspace{2cm}}$.
5. If truth value of a statement p is T then the truth value of $(\sim(\sim p))$ is $\underline{\hspace{2cm}}$.
6. By De-Morgan's law: $\sim [p \wedge q] = \underline{\hspace{2cm}}$
7. Write input/output table for $f(x_1, x_2) = x_1 \cdot x_2'$.
8. For two sets A and B , $(A \cup B)' = \underline{\hspace{2cm}}$.
9. If A is symmetric matrix, then $A^T = \underline{\hspace{2cm}}$.
10. If $U = \{a, b, c, d, e, f\}$ and $A = \{b, c, a\}$ then $A' = \underline{\hspace{2cm}}$.
11. State commutative law for '+' in Boolean Algebra.
12. If $A = \{1,2,3\}$ and $B = \{1,2,3,4,9,11\}$ than $n(A \times B) = \underline{\hspace{2cm}}$.

Q.2 Answer the following. (Any Two)

10

1. In usual notation prove that $A \times (B \cap C) = (A \times B) \cap (A \times C)$.
2. If $U = \{1,2,3,\dots,9\}$, $A = \{1,3,6,5\}$, $B = \{4,2,7,9\}$ and $C = \{2,4,6,8\}$ then find $A \cup (B \cap C)$, $A - B$, $B \cup C$, and $A \cap (B \cup C)$.

3. In a class of 120 students, 55 students passing in physics and 60 students passing in Mathematics. The number of students passing in both the subjects is 25. Then find the number of students who
 (i) Pass only in physics. (ii) Pass only in Mathematics. (iii) Fail in both subjects.

Q.3 Answer the following. (Any Two)

10

1. The fixed cost of a factory of bags is rs.9000 and the variable cost per bag is rs. 110. If the selling price per bag is rs.240 then find profit function, revenue function. Also find Break-even point.
2. If $f(x) = \frac{x^2+4x}{x+6}$ then find $\frac{f(3)+f(2)}{f(-2)+f(-3)}$.
3. If $f(x) = x(x + 1)(2x + 1)$ then find $f(x) + f(x-1)$

Q.4 Answer the following. (Any Two)

10

1. Check the validity of the logical arguments
 Hypothesis: $S_1: p \wedge (\sim q) \Rightarrow r, S_2: p \vee q, S_3: q \Rightarrow p$.
 Conclusion: $S: r$
2. Prove that $(D_6, +, ;', 1, 0)$ is a Boolean algebra $\forall x, y \in D_6$. Where $x + y = l.c.m\{xy\}$
 And $x \cdot y = g.c.d\{x, y\}$ and $x' = \frac{6}{x}$.
3. Using truth table prove that $(p \vee q) \vee r = p \vee (q \vee r)$

Q.5 Answer the following. (Any Two)

10

1. If $A = \begin{bmatrix} 1 & 2 & 3 \\ 0 & -2 & 1 \\ 2 & 3 & 2 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & -1 & 4 \\ 1 & -3 & 2 \\ -1 & 3 & 2 \end{bmatrix}$ than show that $(AB)^T = B^T A^T$.
2. Find A^{-1} for the matrix $A = \begin{bmatrix} -1 & 3 & 1 \\ 0 & 1 & 3 \\ 4 & 1 & 2 \end{bmatrix}$
3. Solve the following equation by Cramer's Rule:
 $2x + 8y = 3xy,$
 $4x + 12y = 5xy.$

2311000901050001
EXAMINATION MARCH 2024
BACHELOR OF COMPUTER APPLICATIONS (NCP-NEP)
(FIRST SEMESTER)
AEC-101-COMMUNICATION SKILLS

[Time: One Hour]

[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) (FIRST SEMESTER)**
 - b. Name of the Subject : **AEC-101-COMMUNICATION SKILLS**
 - c. Subject Code No : **2311000901050001**
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 the following. (Any Four) **8**
- 1) What is a difference between hearing and listening?
 - 2) Define the term "Communication".
 - 3) What is the difference between making an eye contact and gazing at someone?
 - 4) Why do we need to develop efficient reading skill?
 - 5) What is a difference between skimming and scanning?
- Q.2** Write a resume to HRD Department; Coconut Media Box an IT based company, Mumbai for the position of web developer highlighting your experience in web development. **5**
- OR**
- Eklavya a primary School requires Computer teacher for permanent post in school. Draft a resume.
- Q.3** Draft a conversation between two friends discussing about Chandrayan 3 launched by India. **4**
- OR**
- Radhika and Smruti are discussing about advantages and disadvantages of social media. Write a dialogue between them.
- Q.4** As a web-designer of a reputed company, send an Email to the client giving him outline and details about the website he had asked you to design. **4**
- OR**
- Suraj writes an Email to the manager of State bank of India for change in his residential address.

Q.5 Make a précis of the following passage and suggest a suitable title.

4

As technology advances, men have become reliant on the Internet for all of their requirements. The internet has provided man with quick access to everything while remaining seated in one location. Every imaginable thing that man can think of can be done through the medium of the internet, including social networking, online shopping, data storage, gaming, online schooling, and online jobs. The internet is used in nearly all aspects of life. As the internet and its associated advantages grew in popularity, so did the notion of cybercrime. Different types of cybercrime are being committed these days. Cybercrime is defined as illegal conduct in which a computer is utilized as a tool, a target, or both. Cybercrime is a rapidly developing field or crime these days, and it is increasing at a rapid rate. Criminals have discovered that the cyber world makes it easier to commit crimes, thus it has become a major issue that adequate laws be put in place to regulate cybercrime. Basically, cybercrime is on the rise because it is regarded to be the easiest method to commit a crime, and people who have a lot of computer expertise but are unable to find work or do not have a lot of money turn to this source and begin abusing the internet.

2311000901070001

Examination March-April - 2024

Bachelor of Computer Applications (NCP-NEP) (First Semester)

VAC-IKS - Bharatiya Knowledge Systems -

An Introduction

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

1. 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. (Sem. I)**
 - b. Name of the Subject : **VAC-IKS - Bharatiya Knowledge Systems - An Introduction**
 - c. Subject Code No : **2311000901070001**
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

પ્ર.૧. 7 – MCQ (દરેકનો ૧ માર્કસ)

(07)

Q.1. 7 – MCQ (1 Mark each)

1. ભારતીય જ્ઞાનપરંપરા મુજબ વિદ્યાઓ કેટલા પ્રકારની છે?

According to the Indian knowledge tradition, how many types of learning are there?

(A) બે

(B) ચાર

Two

Four

(C) આંઠ

(D) અઢાર

Eight

Eighteen

2. 'પાયથાગોરસ પ્રમેય' થી પહેલાં આ પ્રમેયની શોધ કયા ભારતીયે કરી હતી?

Which Indian discovered this theorem before 'Pythagoras theorem'?

(A) આર્યભટ્ટ

(B) રામાનુજાચાર્યે

Aryabhata

Ramanujacharya

(C) બોધાયને

(D) નાગેશ ભટ્ટ

Bodhayana

Nagesh Bhatte

3. મહર્ષિ ભૃગુ કેટલા પ્રકારની કલાઓનો ઉલ્લેખ કરે છે?

How many types of arts does Maharshi Bhrigu mention?

(A) 18

(B) 64

(C) 51

(D) 108

4. વાત્સ્યાયને કયા ગ્રંથની રચના કરી છે?

Which book did Vatsyayana compose?

(A) કામસૂત્ર

Kamasutra

(C) વાસ્તુશાસ્ત્ર

Vastu Shastra

(B) બ્રહ્મસૂત્ર

Brahmasutra

(D) કલ્પસૂત્ર

Kalpasutra

5. ભારતીય જ્ઞાનપરંપરા મુજબ કયો કાયદો તમામ અસ્તિત્વને નિયંત્રિત કરે છે?

According to the Indian knowledge system, which law governs all existence?

(A) પુનર્જન્મ

reincarnation

(C) નશાબંધી

Addiction

(B) લગ્ન

marriage

(D) ઉપર પૈકી કોઈપણ નહિ

None of the above

6. વિશ્વમાં યુદ્ધની અંદર રોકેટનો સૌ પ્રથમ ઉપયોગ કોણે કર્યો હતો?

Who first used rockets in warfare in the world?

(A) ચીનની સેનાએ

The Chinese army

(C) અમેરિકન સેનાએ

American army

(B) રશિયાની સેનાએ

Russian army

(D) ટીપુસુલતાનની સેનાએ

Tipusultan's army

7. નાલંદા વિદ્યાપીઠ કયા રાજ્યમાં આવેલી છે?

Nalanda Vidyapith is located in which state?

(A) ગુજરાત

Gujarat

(C) પંજાબ

Punjab

(B) મહારાષ્ટ્ર

Maharashtra

(D) બિહાર

Bihar

પ્ર.૨. સવિસ્તાર પ્રશ્ન (૨ માંથી કોઈ પણ ૧)

(06)

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

1. કામ અને મોક્ષ સમજાવો.

Explain Kama and Moksha.

2. હિંદુ ધર્મના ત્રણ કર્મો વિશે માહિતી આપો.

Give information about the three karmas of Hinduism.

- પ્ર.૩. સવિસ્તાર પ્રશ્ન (૨ માંથી કોઈ પણ ૧) (06)
- Q.3. **Answer in Detail (Any 1 out of 2)**
1. ભારતીય જ્ઞાન પ્રણાલી સમજાવો.
Explain the Indian knowledge system.
 2. ભારતીય જ્ઞાન પરંપરામાં મેટલ/ઘાતુ ટેકનોલોજી સમજાવો.
Explain metal/metal technology in Indian knowledge tradition.
- પ્ર.૪. ટૂંકનોંધ લખો (૪ માંથી કોઈ પણ ૨) (06)
- Q.4. **Write a short note (any 2 out of 4)**
1. ભારતમાં જ્ઞાનની પરંપરા અને આજની વાસ્તવિકતા.
Tradition of knowledge in India and today's reality.
 2. વસુધૈવ કુટુંબકમના ઉત્કર્ષની ચર્ચા.
A discussion of the rise of the Vasudhaiva Kutumbakam.
 3. ભારતીય દ્રષ્ટિએ વિજ્ઞાનની ધારણા.
Perception of science in Indian context.
 4. કર્મનો સિદ્ધાંત.
Theory of Karma.

2311000901010012-A
EXAMINATION APRIL - 2024
BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)
(FIRST SEMESTER)
BCA (PRACTICAL -104) CPPM

[Time: Two Hours]

[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) (FIRST SEMESTER)**
 - b. Name of the Subject : **BCA (PRACTICAL -104) CPPM**
 - c. Subject Code No : **2311000901010012-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 program to print

20

```
    1
   1 2
  1 2 3
 1 2 3 4
1 2 3 4 5
```

Q.2 Viva + Journal

5

2311000901020022-A
EXAMINATION APRIL -2024
BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)
(FIRST SEMESTER)
BCA (PRACTICAL -105) DPA
Data Processing & Analysis (DPA)

[Time: Two Hours]

[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) (FIRST SEMESTER)**
 - b. Name of the Subject : **BCA SEM-1 (PRACTICAL -105) DPA**
 - c. Subject Code No : **2311000901020022-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 a Sales report On the following details in Spreadsheet. (Salesman No, Name, City, Product, Price Per Unit, Qty) **10**

Instruction:

- Enter 5 Records.
- Product must be one of TV, MOBILE, LAPTOP or AC.
- Calculate Sal_price using following formula. (Price Per Unit * Qty).
- Create a 3D Pie chart to show Product details.

- B. Create Employee table with appropriate constraint and add minimum five records in this table: **10**

Emp_id, Emp_name, Joining_date, Designation, salary
Perform Following Queries:

1. Insert 5 records
2. Display details of employee who join between 1/1/1980 to 1/1/2010.
3. Display Detail of employee whose name contain 'A' as a second character.

Q.2 Viva + Journal

5

2311000901010012-B
EXAMINATION APRIL - 2024
BACHELOR OF COMPUTER APPLICATIONS (PRACTICAL)
(FIRST SEMESTER)
BCA (PRACTICAL -104) CPPM

[Time: Two Hours]

[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) (FIRST SEMESTER) b. Name of the Subject : BCA (PRACTICAL -104) CPPM c. Subject Code No : 2311000901010012-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.	<p style="text-align: center;">Seat No:</p> <table border="1" style="width: 100%; height: 30px; border-collapse: collapse;"><tr><td style="width: 25%;"></td><td style="width: 25%;"></td><td style="width: 25%;"></td><td style="width: 25%;"></td></tr></table> <div style="border: 1px solid black; height: 80px; width: 100%; margin-top: 10px;"></div> <p style="text-align: center;">Student's Signature</p>				

- Q.1** Write a program to print sum of all elements of 1-D array. **20**
- Q.2** Viva + Journal **5**
