

2511000904011001
EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATION (NCF-NEP)
(FOURTH SEMESTER)
MAJOR-1-403-JAVA PROGRAMMING LANGUAGE (TH)
(NEW)

[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) (FOURTH SEMESTER)**
 - b. Name of the Subject : **MAJOR-1-403-JAVA PROGRAMMING LANGUAGE (TH) (NEW)**
 - c. Subject Code No : **2511000904011001**
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 5)

5

1. If you make a class ____ then it cannot be inherited
 - A. abstract
 - B. final
 - C. static
 - D. None

2. Explicit conversation is also known as:
 - A. Widening
 - B. Implicit
 - C. Narrowing
 - D. System

3. What is the full form of JVM?
 - A. Java Very large Machine
 - B. Java Verified Machine
 - C. Java Virtual Machine
 - D. Java Very small Machine

(B) Write a note on String Buffer class.

4

OR

What is thread in java? List two ways to use thread in a class with proper example.

Q.4 Write a program to find simple interest using command line argument.

4

(SI= $p*r*n/100$)

OR

Differentiate between linked list and arrays.

2511000904022001
EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATION
(NCF-NEP) (FOURTH SEMESTER)
MAJOR-2-404-.NET PROGRAMMING (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) (FOURTH SEMESTER)**
 - b. Name of the Subject: **MAJOR-2-404-.NET PROGRAMMING (TH)**
 - c. Subject Code No: **2511000904022001**
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 FIVE):

05

1. With the use of .net programming we can develop _____ applications?
 - (A) Console
 - (B) Windows
 - (C) Web/Mobile based
 - (D) All of the above

2. Radio buttons are used to _____.
 - (A) limit user input
 - (B) make interface look better
 - (C) make coding easier
 - (D) fill unique information

3. A _____ performs invisible tasks even if you write no code.
 - (A) Destructor
 - (B) Constructor
 - (C) Function
 - (D) Procedure

4. _____ prevents you from using undeclared variable in your code.
(A) Option Implicit On (B) Option Explicit On
(C) Option Infer On (D) Option Strict On
5. Which of the following is part of an object?
(A) methods (B) properties
(C) instances (D) both (A) & (B)
6. _____ converts to long datatype.
(A) Lng (B) CLng
(C) Long (D) CLong
7. Which of the following is (are) the Command Object Method(s)?
(A) Execute Reader (B) Execute Scaler
(C) Execute Non Query (D) All of the above

Q.2 [A] Explain working of CLR. **4**

OR

[A] Write a note on CTS. **4**

[B] Write a note on conditional control statement. **4**

OR

[B] Explain any four string functions using example. **4**

Q.3 [A] Explain ListBox control with its main properties and events. **4**

OR

[A] Write a short note on structured exception handling. **4**

[B] Explain My Base and My Class keywords. **4**

OR

[B] Explain constructor with its syntax. **4**

Q.4 What is disconnected architecture? How ADO.NET achieves it? **4**

OR

Explain the use of Data Adapter and Dataset using examples. **4**

2511000904033001
EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATION (NCF-NEP)
(FOURTH SEMESTER)

MAJOR-3-405-01-WEB DESIGNING - II (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) (FOURTH SEMESTER)**
 - b. Name of the Subject: **MAJOR-3-405-01-WEB DESIGNING - II (TH)**
 - c. Subject Code No: **2511000904033001**
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 the following Multiple Choice Questions (Any 5 out of 7)

5

1. XML stands for:

- | | |
|-------------------------------|----------------------------|
| A. eXtra Marking Language | B. Example Markup Language |
| C. eXtensible Markup Language | C. X-Markup Language |

2. Which of the statements about XML is correct?

- A. All XML elements must be lower case
- B. All XML documents must have a DTD
- C. All XML elements must have a closing tag
- D. All of Above

3. Which jQuery is used to hide the current element?
- A. `$(this).hideelement()` B. `$(this).hide('true')`
- C. `$(this).hide(0)` D. `$(this).hide()`
4. Which of these is proper JSON array?
- A. `{ "letters": ["a", "b", "c"]; }` B. `{'letters': {"a", "b", "c"}}`
- C. `{ "letters": [a, b, c]}` D. `{ "letters": ["a", "b", "c"]}`
5. What makes Ajax unique?
- A. It works as a stand-alone Web-development tool.
- B. It works the same with all Web browsers.
- C. It uses C++ as its programming language.
- D. It makes data requests asynchronously.
6. In which of the following areas, Node.js is absolutely perfect to use?
- A. I/O bound Applications B. Data Streaming Applications
- C. JSON API based Applications D. All of the above
7. What is Callback?
- A. The callback is a technique in which a method calls back the caller method.
- B. The callback is an asynchronous equivalent for a function.
- C. Both of the above.
- D. None of the above.

Q.2 [A] What are the characteristics of XML? 4

OR

[A] Write about syntax rules of XML Tags, Elements, and Attributes. 4

[B] Write about Insert methods of jQuery. 4

OR

[B] Explain jQuery effects with example. 4

Q.3 [A] Write about similarities and differences of JSON and XML. 4

OR

[A] Write about JSON Arrays object using multi dimension arrays with example. 4

[B] Write the differences between Synchronous and Asynchronous web application. 4

OR

[B] Explain Open() and Send() methods of XMLHttpRequest. 4

Q.4 [A] Explain require () function of Node.js. 4

OR

[A] Write about fs.appendFile() method of Node.js. 4

2511000904033003
EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATION
(NCF-NEP) (FOURTH SEMESTER)
MAJOR-3-405-02-MOBILE APPLICATION
DEVELOPMENT - II (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) (FOURTH SEMESTER)**
 - b. Name of the Subject : **MAJOR-3-405-02-MOBILE APPLICATION DEVELOPMENT - II (TH)**
 - c. Subject Code No : **2511000904033003**
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. Mention your options clearly.

Seat No:

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Student's Signature

Q.1 Attempt any five (One mark each)

5

1. In a custom ListView, which of the following is used to customize the individual items?
 - a) Adapter
 - b) ViewHolder
 - c) ViewGroup
 - d) LayoutInflater

2. Which of the following is used to listen to changes in the text of an EditText?
 - a) TextWatcher
 - b) OnClick Listener
 - c) OnTextChange Listener
 - d) FocusListener

3. Which of the following is a valid Dart variable declaration?
 - a) var num = 10;
 - b) num = 10;
 - c) int num: 10;
 - d) let num = 10;

4. Which type of Flutter widget is immutable and does not change after the widget is created?
- a) Stateful Widget
 - b) Stateless Widget
 - c) Inherited Widget
 - d) Future Builder
5. Which widget in Flutter is used to arrange widgets vertically?
- a) Row
 - b) Column
 - c) Stack
 - d) Container
6. In the Stack widget, how do you position a widget inside the stack using an offset?
- a) By using the Align widget
 - b) By using the Positioned widget
 - c) By setting the margin property
 - d) By using the Padding widget
7. To handle a state change when a user interacts with a RadioButton in Flutter, which property should be used?
- a) onChange
 - b) onChanged
 - c) toggle
 - d) isSelected

Q.2 (a) Discuss the role of ProgressBar in Android applications. Also, explain how a ProgressBar can be used to show progress in an Android app. **4**

OR

(a) Discuss the role of DatePicker and TimePicker in Android applications. Also, explain how a DatePicker can be used to show Calendar in an Android app. **4**

(b) Describe the different types of loop constructs available in Dart: for, while, and do...while. **4**

OR

- (b) Explain the purpose of the break, continue, and label statements in Dart. **4**
Provide an example demonstrating how each of these statements can be used in loops.

- Q.3** (a) What are the key features of Flutter that make it a popular framework for cross-platform development? Discuss the advantages of using Flutter over other frameworks. **4**

OR

- (a) What is the difference between StatelessWidget and StatefulWidget in Flutter? **4**

- (b) Explain the any two types of buttons in Flutter. **4**

OR

- (b) How are Checkbox and RadioButton widgets used in Flutter to collect user input? Discuss the key properties of each widget and the differences between them in terms of their functionality and usage. **4**

- Q.4** (a) Discuss the Toast widget in Flutter and how it can be used to display brief messages. **4**

OR

- (a) Describe the various ways to create lists in Flutter using the ListView widget. **4**

2511000904044001
EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATION (NCF-NEP)
(FOURTH SEMESTER)
MINOR-402-01-INTERNET OF THINGS (IOT)

[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) (FOURTH SEMESTER)**
 - b. Name of the Subject : **MINOR-402-01-INTERNET OF THINGS (IOT)**
 - c. Subject Code No : **2511000904044001**
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 in brief (Any Five)

10

1. Define MQTT.
2. In the security of IoT, what is the full form of CIA?
3. What is an ultrasonic sensor?
4. Explain of GPIO pins?
5. Give two examples of M2M.
6. List transport layer protocols.
7. What does AAA stand for?

Q.2 A. Explain any two Communication model.

3

OR

Differentiate:M2M and IOT.

B. Answer Following (Any Three)

12

1. Write a note on Big Data Analytics.
2. Differentiate Sensor and Actuators.
3. What is a sensor? Explain any 2 sensors.
4. Explain WSN.

Q.3

A. Explain M2M architecture in detail.

4

OR

What is Actuator? Explain any 2 Actuators.

B. Answer following. (Any Three)

21

1. Explain the Components of Arduino.
2. Explain the Components of RaspberryPi.
3. Write a case study for a smart city application.
4. Discuss the physical design of IoT.

2511000904077001
EXAMINATION MAR-APR - 2025
BACHELOR OF COMPUTER APPLICATION
(NCF-NEP) (FOURTH SEMESTER)
VAC-407-BHARATIYA GYAN
PARAMPARA PRAVISHTI

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

1. नीचे दशविव विगतो उत्तरवडी पर अवश्य लखवी.

Fill up strictly the following details on your answer book

- Name of the examination : B.C.A. (NCF-NEP) (SEM. IV)
 - Name of the Subject : VAC-407-BHARATIYA GYAN
PARAMPARA PRAVISHTI
 - Subject Code No : 2511000904077001
- Sketch neat and labelled diagram wherever necessary
 - Figures to the right indicate full marks of the question.
 - All questions are compulsory.

Seat No:

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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)

- What is physical and mental disorder called?
(A) Anger (B) Greed
(C) Infatuation (D) Desire (*Kama*)
- Whose son was King Bhagiratha?
(A) Ikshvaku (B) Bhagirath
(C) Dilip (D) Sagar
- What is the secret of reincarnation?
(A) Death (B) Lust
(C) Impenetrable wood (D) Anger

4. Why is there is *Vidya* for the wicked person?
(A) Controversy (B) Good Action
(C) Bad Action (D) Growth
5. In which *Parva* of Mahabharata does the popular story of *Dharmavyadh* appear?
(A) *Drona Parva* (B) *Virat Parva*
(C) *Bhishma Parva* (D) *Van parva*
6. _____ is also a meaning *Dharma*.
(A) *Vedas* (B) *Kartavya*
(C) *Sampradaya* (D) *Vado*
7. How many sons did the Nahush have?
(A) 8 (B) 9
(C) 6 (D) 10

Q.2. Write Following Answers (15)

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

1. Briefly describe the dialogue between Nachiketa and his father Udalka.
2. Explain the gist of the story about *Dharma* and *Ekatma* (Unity).

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

1. Describe the Yaksha's giant form and the lake.
2. Write the secret of the story Vidura narrated to Dhritarashtra.

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

1. How did Vishvamitra get the position of 'Brahmarshi'? Explain.
2. What does Janaka say about *pragyata*?

Gujarati Version [Max. Marks: 25]

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

1. શારીરિક અને માનસિક વિકાર ને શું કહેવામાં આવે છે?
(A) ક્રોધ (B) લોભ
(C) મોહ (D) કામ
2. ભગીરથ રાજા કોના પુત્ર હતા?
(A) ઈક્ષ્વાકુ (B) ભગીરથ
(C) દિલીપ (D) સગર
3. પુનર્જન્મનું રહસ્ય શું છે?
(A) મૃત્યુ (B) વાસના
(C) અભેદ લાકડું (D) ક્રોધ

4. દુર્જનો માટે વિદ્યા શા માટે હોય છે?
- (A) વિવાદ (B) સારા
(C) ખરાબ (D) વૃદ્ધિ
5. મહાભારતનાં કયા પર્વમાં ધર્મવ્યાધની કથા ખુબ પ્રસિદ્ધ છે?
- (A) દ્રોણ પર્વ (B) વિરાટ પર્વ
(C) ભીષ્મ પર્વ (D) વન પર્વ
6. ધર્મનો એક અર્થ _____ પણ થાય છે.
- (A) વેદ (B) કર્તવ્ય
(C) સંપ્રદાય (D) વાડો
7. નહુષ ને કેટલા પુત્ર હતા?
- (A) ૮ (B) ૯
(C) ૬ (D) ૧૦

પ્ર.૨. નીચેના જવાબો લખો (15)

પ્ર.૨. (અ) ટૂંકનોંધ લખો (૨ માંથી કોઈ પણ ૧) (05)

1. નચિકેતા અને તેના પિતા ઉદાલક વચ્ચેનો સંવાદ ટૂંકમાં જણાવો.
2. ધર્મ અને એકાત્મ વિશેની વાર્તાનો સાર જણાવો.

પ્ર.૨. (બ) ટૂંકનોંધ લખો (૨ માંથી કોઈ પણ ૧) (05)

1. યક્ષનાં બિહામણા સ્વરૂપ તથા સરોવરનું વર્ણન કરો.
2. વિદુરે ધૃતરાષ્ટ્રને સાંભલાવેલી વાર્તાનું રહસ્ય લખો.

પ્ર.૨. (ક) ટૂંકનોંધ લખો (૨ માંથી કોઈ પણ ૧) (05)

1. વિશ્વામિત્રને 'બ્રહ્મર્ષિ' નું પદ કઈ રીતે મળ્યું તે સમજાવો.
2. જનક પ્રજ્ઞતા (પ્રજ્ઞા) વિશે શું કહે છે?

***** END *****

Develop a Mobile application of any Bank which performs following: **40**
Customer Sign-Up/ Sign In
Current Balance
List of last 5 transactions
Contact Us

Q.4 Viva and Journal **20**

2511000904011002-A
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
MAJOR-1 (PRACTICAL -403) (JAVA PROGRAMMING
LANGUAGE)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**

b. Name of the Subject: **MAJOR-1 (PRACTICAL -403) (JAVA PROGRAMMING LANGUAGE)**

c. Subject Code No : **2511000904011002-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 Implement a Singly Linked List in Java with the following operations:

20

- Insert at the end.
- Display all elements.

Q.2 Viva + Journal

5

2511000904011002-B
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -403) (Java Prog.Lang.)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**
 - b. Name of the Subject: **BCA SEM-4 (PRACTICAL -403) (Java Prog.Lang.)**
 - c. Subject Code No: **2511000904011002-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 Java program to input a string from the user and perform the following operations: **20**

- Convert it to uppercase.
- Find the length of the string.
- Reverse the string.
- Count the number of vowels in the string.

Q.2 Viva + Journal

05

2511000904011002-D
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)

BCA SEM-4 (PRACTICAL -403) (Java Prog.Lang.)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**

b. Name of the Subject : **BCA SEM-4 (PRACTICAL -403) (Java Prog.Lang.)**

c. Subject Code No : **2511000904011002-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 Write a Java program that takes five numbers from the command line and prints them in ascending order. **20**

Q.2 Viva + Journal **05**

2511000904011002-E
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -403) (Java Prog.Lang.)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**
 - b. Name of the Subject : **BCA SEM-4 (PRACTICAL -403) (Java Prog.Lang.)**
 - c. Subject Code No : **2511000904011002-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** Create a Student class with attributes: name, rollNo, and marks. Implement a method display() to show student details. Create two student objects and display their details. **20**
- Q.2** Viva + Journal **05**

2511000904011002-F
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -403) (Java Prog.Lang.)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**
 - b. Name of the Subject : **BCA SEM-4 (PRACTICAL -403) (Java Prog.Lang.)**
 - c. Subject Code No : **2511000904011002-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 Java program to create a thread that prints "Hello from Thread" five times using the Thread class. **20**
- Q.2** Viva + Journal **05**

2511000904022002-A
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
MAJOR – 2 - 404 (.NET PROGRAMMING) PR

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**
- b. Name of the Subject : **MAJOR – 2 - 404 (.NET PROGRAMMING) PR**
- c. Subject Code No : **2511000904022002-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 VB.NET application to create a table student (Roll No, SName, Class, City). Insert the records. Update city of students to 'Surat' whose city is 'Mumbai' and display updated records in dataGridView. **20**
- Q.2** Viva + Journal **5**

2511000904022002-B
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -404) (.NetProg)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**

b. Name of the Subject: **BCA SEM-4 (PRACTICAL -404) (.NetProg)**

c. Subject Code No: **2511000904022002-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 Create a VB.NET application that maintain information of students in table Student (rollno, stud_name, course, marks). Marks is out of 100. Perform Insert and Update operations on it. **20**

Generate report in data gridview for students who score more than 80 marks.

Q.2 Viva + Journal **05**

2511000904022002-C
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -404) (.NetProg)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**
 - b. Name of the Subject : **BCA SEM-4 (PRACTICAL -404) (.NetProg)**
 - c. Subject Code No : **2511000904022002-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 an application which perform insert, update, delete on Student (Studentno, name, address, city) table which maintain student information and search specific records based on city and name **20**
- Q.2** Viva + Journal **5**

2511000904022002-D
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -404) (.NetProg)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**

b. Name of the Subject: **BCA SEM-4 (PRACTICAL -404) (.NetProg)**

c. Subject Code No: **2511000904022002-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 Write a VB.NET program to accept the details Supplier (Supld. SupName, Phone No, Address). Store it into the database and perform insert, update and delete operations on it. **20**

Q.2 Viva + Journal **5**

2511000904022002-E
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -404) (.NetProg)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**
- b. Name of the Subject: **BCA SEM-4 (PRACTICAL -404) (.NetProg)**
- c. Subject Code No: **2511000904022002-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 Create a VB.NET application that has following functionalities for a grocery Store. **20**

1. Insert Grocery Items in Grocery Master table (Item No, Name, MRP, Sell Price, Quantity)
2. Display data in DataGridView and ability to search for specific Item Name.
3. Update, Delete operations for Updating/deleting Stock Quantity.

Q.2 Viva + Journal **05**

2511000904022002-F
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -404) (.NetProg)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**
 - b. Name of the Subject : **BCA SEM-4 (PRACTICAL -404) (.NetProg)**
 - c. Subject Code No : **2511000904022002-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** Create VB.NET application to maintain item information. ItemMst (ItemNo. Name, Cost, Quantity) **20**

Design proper form which search for a particular item. If it is found, accepts new cost and quantity, otherwise insert new record in the table. Also generate report of out of stock item name in data grid view.

- Q.2** Viva + Journal **05**

2511000904033002-A
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
MAJOR-3 (PRACTICAL -405-1) WEB DESINING)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**

b. Name of the Subject : **MAJOR-3 (PRACTICAL -405-1) WEB DESINING)**

c. Subject Code No : **2511000904033002-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** Create an XML file to store Employee details like id, firstname, lastname, title, department, contactno, email. **10**
- Q.2** Create an Employee Details page that reads data from the above created XML file using AJAX with button name as Show Employee Details and display in proper format. Use of jQuery or CSS is essential. **10**
- Q.3** Viva-voce **5**

2511000904033002-B
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -405-1) Web Desining)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**

b. Name of the Subject : **BCA SEM-4 (PRACTICAL -405-1) Web Desining)**

c. Subject Code No : **2511000904033002-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 Design a website for Online Admission system with following

20

web pages:

(use jQuery, JSON, XML, AJAX as per needs)

1. Login Page

2. Courses details (from XML or JSON file)

3. Admission form (Perform validation(s) using jQuery)

Q.2 Viva + File

5

2511000904033002-C
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -405-1) Web Designing)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**

b. Name of the Subject : **BCA SEM-4 (PRACTICAL -405-1) Web Designing)**

c. Subject Code No : **2511000904033002-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 Design a website for online movie ticket booking system with following web pages: **20**

(use jQuery, JSON, XML, AJAX as per needs)

1. Sign up and Login page
2. Movie Ticket booking page (from XML or JSON file)

Note - Perform validation(s) using jQuery

Q.2 Viva + File

5

2511000904033002-E
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -405-1) Web Desining-II)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**

b. Name of the Subject : **BCA SEM-4 (PRACTICAL -405-1) Web Desining-II)**

c. Subject Code No : **2511000904033002-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 Design a website for Online Grocery Store with minimum 4 pages.

20

Give proper validation to different fields and perform following tasks:

1) Create registration and login page.

2) Display list of all grocery items.

3) Search item with specific category.

Use JavaScript, XML, CSS, jQuery, JSON, AJAX etc. wherever require.

Q.2 Viva-voce

5

2511000904033002-F
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -405-1) Web Desining -II

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**
 - b. Name of the Subject : **BCA SEM-4 (PRACTICAL -405-1) Web Desining –II)**
 - c. Subject Code No : **2511000904033002-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 Create an HTML page that displays all the products of selected Category. Read the product information from products. json file which contains prodd , prodname ,category ,description ,image , price ,etc. Use Ajax to read the product data from the json file Also use JQuery ,css ,bootstrap wherever required. **20**

Q.2 VIVA+JOURNAL **5**

2511000904033004-A
EXAMINATION APRIL 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -405-2) (MOBILE APPLICATION
DEVELOPMENT II) (PR) (NEW)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**
 - b. Name of the Subject : **BCA SEM-4 (PRACTICAL -405-2) (MOBILE APPLICATION DEVELOPMENT II) (PR) (NEW)**
 - c. Subject Code No : **2511000904033004-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 Create Mobile Application for Online Exam System.

20

Which contains following functionality.

1. Login and Registration Screen.
2. Subject List with Search view.

Q.2 Viva

5

2511000904033004-B
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -405-2) (MOBILE APPLICATION
DEVELOPMENT –II) (NEW)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**
 - b. Name of the Subject : **BCA SEM-4 (PRACTICAL -405-2) (MOBILE APPLICATION DEVELOPMENT –II) (NEW)**
 - c. Subject Code No : **2511000904033004-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 Create TODO list app which allows addition and deletion of Todo events from list view. **20**

Q.2 Viva **5**

2511000904033004-C
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -405-2) (Mob.App.Dev.)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**
 - b. Name of the Subject: **BCA SEM-4 (PRACTICAL -405-2) (Mob.App.Dev.)**
 - c. Subject Code No: **2511000904033004-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 Develop Mobile Application for Bus Ticket Booking System Perform following operations: **20**

- 1) Registration Activity for Passenger
- 2) Login Activity for Passenger
- 3) List of Buses with Bus number, Journey date, Source, Destination and Ticket Price
- 4) Provide appropriate search facility.

Q.2 Viva and Journal **05**

2511000904033004-D
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -405-2) (Mob.App.Dev.)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**
 - b. Name of the Subject: **BCA SEM-4 (PRACTICAL -405-2) (Mob.App.Dev.)**
 - c. Subject Code No : **2511000904033004-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 Develop Mobile Application for Employee Management System Perform following operations: **20**

- 1) Registration Activity for Employee
- 2) Login Activity for Employee
- 3) List of Employee with Employee name, Employee Designation, Employee image and Employee Salary
- 4) Provide search facility in Employee list.

Q.2 Viva and Journal **05**

2511000904033004-E
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -405-2) (Mob.App.Dev.)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**

b. Name of the Subject: **BCA SEM-4 (PRACTICAL -405-2) (Mob.App.Dev.)**

c. Subject Code No: **2511000904033004-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 Develop a Mobile Application for Share Market to perform following task: **20**

1. Login Screen.
2. Display a list of shares with a search facility to find specific shares.
3. Perform buy or sell actions on a share by clicking on any share in the list.

Q.2 Viva **05**

2511000904033004-F
EXAMINATION APRIL – 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (FOURTH SEMESTER)
BCA SEM-4 (PRACTICAL -405-2) (Mob.App.Dev. -II)

[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 (PRACTICAL) (NEP) (FOURTH SEMESTER)**
 - b. Name of the Subject : **BCA SEM-4 (PRACTICAL -405-2) (Mob.App.Dev.-II)**
 - c. Subject Code No : **2511000904033004-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 Develop mobile application in which user can search movies (using Search view) and then select show time (using Spinner) with other details like date, no of seats, amount etc. Then click on a submit button, that will show you an alert dialog box which displays Movie name, show time and other details. **20**

Q.2 Viva **5**
