

VEER NARMAD SOUTH GUJARAT UNIVERSITY

Examination March- 2026

SYBCA SEMESTER-IV

Subject Code: 2511000904022001

Course Code: Major-2-404-.NET PROGRAMMING (TH)



[Time: 1 Hrs]

[Total Marks: 25]

Q1[A] Answer the Following (Any Four)

[4]

1. CLR is the .NET equivalent of _____.
A. Java Virtual Machine
B. Common Language Runtime
C. Common Type System
D. Common Language Specification
2. Which is not a property of the Common control class?
A. Show
B. BackColor
C. Font
D. ForeColor
3. In event-driven programming an event is generated by?
A. the system
B. a user's action
C. the program itself
D. All of the these
4. Group Box Control act as _____
A. Method
B. Event
C. Container
D. None of the above
5. Which of the following keyword of VB.NET is used to throw an exception when a problem shows up?
A. Try
B. Catch
C. Finally
D. Throw

Q1[B] Write the answer in short (Any Four)

(4)

1. Which keyword is use to create abstract base class?
2. What is class library?
3. Give the Difference between enable and visible property
4. What is the use of mybase and myclass keyword
5. What is importance of namespace

Q2[A] Explain .net framework in detail.

[5]

OR

[A] Explain polymorphism with example.

[5]

Q2[B] Explain Data grid View.

[4]

Q3 Answer the following (Any Two)

[8]

(A) Explain Rich text box in detail with all its property, methods and events.

(B) Explain Ado.net in brief.

(C) Explain input box and message box in detail.

VEER NARMAD SOUTH GUJARAT UNIVERSITY

Examination March- 2026

Second Year Bachelor Of Computer Application (NCP-NEP)(Semester – 4)

Subject Code: 2511000904033001

Paper: 405-01-MJ-3WEB DESIGNING-II (TH)



Time: 1 Hours

Total Marks: 25

Instructions:

- 1. All questions are compulsory.**
- 2. Figure to the right indicate full marks.**
- 3. Illustrate your answer with necessary examples, if required**

Q.1 Answer the following (Any Five):

(5)

1. Which tag defines the XML version?
 - a. <doctype>
 - b. <xml>
 - c. <?XML?>
 - d. <root>
2. Which jQuery method is used to handle click events?
 - a. click()
 - b. onclick()
 - c. triggerclick()
 - d. buttonclick()
3. Ajax sends data to a web server _____
 - a. Before loading the page
 - b. In the background
 - c. with reloading the page
 - d. All of the above
4. Which technology sends AJAX requests?
 - a. XMLHttpRequest
 - b. HTML
 - c. CSS
 - d. PHP
5. Which method is used to create a server in Node.js?
 - a. createServer()
 - b. createHTTPSServer()
 - c. newServer()
 - d. startServer()
6. Which is the correct symbol to insert a comment in JSON?

- a. //
 - b. /*.....*/
 - c. <! "...." ">
 - d. JSON doesn't support the comments.
7. ready State value 4 means?
- a. Request started
 - b. Respond ready
 - c. Processing
 - d. Error

Q.2 (A) What are the characteristics of XML? (4)

OR

Q.2 (A) Describe jQuery selectors and event handling in detail.

Q.2 (B) Write a note on jQuery Effects with example. (4)

OR

Q.2 (B) Explain AJAX architecture.

Q.3 (A) Explain the use of use-defined modules in Node.js. (4)

OR

Q.3 (A) What is JSON? Write features of JSON.

Q.3 (B) Explain Get and Set methods of jQuery. (4)

OR

Q.3 (B) Explain the features of Node.js.

Q.4 (A) Compare HTML and XML with suitable points.

OR

Q.4 (A) Describe synchronous vs asynchronous web application with diagram.



Time: 1 Hours

Total Marks: 25

Instructions:

1. All questions are compulsory.
2. Figure to the right indicate full marks.
3. Mention your options clearly.

Q.1 (A) Solve the following MCQ (Any Four).

(4)

1. Dart is _____ language.
 - a. Markup
 - b. Scripting
 - c. Programming
 - d. Query
2. Which widget is invisible?
 - a. Text
 - b. Image
 - c. Row
 - d. Button
3. Which widget is used for tabs?
 - a. Framelayout
 - b. Tablayout
 - c. Linearlayout
 - d. ScrollView
4. Which widget support multiple children?
 - a. Text
 - b. Center
 - c. Column
 - d. Image
5. Which of the following is an event of button?
 - a. onTap
 - b. Click
 - c. onPressed
 - d. onClick

Q.1 (B) Answer the following in Brief (Any 4).

(4)

- a. Define Search View.
- b. What is Tooltip?
- c. What is continue statement?
- d. What is Scaffold?
- e. What is Stack widget?

Q.2 Answer the following.

(9)

(A) Explain DatePicker and TimePicker with attributes.

(5)

OR

Explain Dart functions and argument passing.

(B) Explain Stateless Widget and Stateful Widget.

(4)

Q.3 Answer the following (Any 2 out of 3).

(8)

- a. Explain AlertDialog and it's components in flutter.
- b. Explain Buttons and Slider in Flutter.
- c. Explain Toast and Switch widget.

VEER NARMAD SOUTH GUJARAT UNIVERSITY

Examination March- 2026



BCA (NCF-NEP) Semester-IV
Bachelor Computer Application (NCF-NEP)(Fourth Semester)
Subject Code: 2511000904044001
MINOR-402-INTERNET OF THINGS

Time: 2 Hrs

[Max. marks: 50]

Q.1 Answer following MCQs

[A]

1 The full forms of IaaS is:

(05)

- (a) Infrastructure as a service
- (b) Internet as a service
- (c) IT as a service
- (d) None of Above

2. Which of the following devices converts signals from one physical form to another?

- (a) Sensor
- (b) Actuator
- (c) Transducer
- (d) Processor

3. Which One of the following is open-source design?

- (a) Arduino
- (b) Raspberry Pi
- (c) Both A and B
- (d) None

4 Actuators are used to:

- (a) Sense an object
- (b) Activate a chemical
- (c) Make mechanical movement
- (d) All of Above
- (e)

5. _____ means a set of large, structured, unstructured, and semi-structured data

- (a) Small Data
- (b) Physical Computing
- (c) Big Data
- (d) Cloud Computing

[B] Answer any five following in short. (Any Five)

(05)

1. Define MQTT
2. In the security of IoT, what is the fully form of CIA?
3. What is an ultrasonic sensor?
4. What is the full form of GPIO pins?
5. Smart Parking is part of which IoT application?
6. List transport layer protocols.

Q.2 Answer the following in detail. (Any Two)

(10)

[A.]

1. Explain the components of IoT
2. Differentiate: M2M and IoT
3. Discuss the Transport Layer and Link layer Protocol.

[B.] Answer the following. (Any Two)

(06)

1. What is a Digital Sensor?
2. Explain the Embedded system in brief.
3. Explain is request-response Communication model.

Q.3 Answer the following in detail. (Any Two)

(10)

[A.]

1. Explain the Components of Arduino
2. What is Actuator? Explain any 2 Actuators.
3. Explain the Components of Raspberry Pi.

[B.] Answer following. (Any Two)

(06)

1. Differentiate sensor and Actuators.
2. Differentiate Arduino and Raspberry Pi
3. What is the purpose of a water level sensor?

Q.4 Answer the following

(08)

Write a case study on smart city application.

OR

Write a case study on smart home application.

UDHNA COLLEGE

UNIVERSITY SEC_CROSS PLATFORM MAD - 1 Question paper

Question Set 1

Class Group: BCA Semester - IV

Subject: 406 SEC – Cross–Platform MAD-1

(1) Which of the following is NOT a cross-platform framework?

Options (1) Xamarin (2) Flutter (3) Android Studio (4) React Native

(2) Which framework is best known for its hot reload feature?

Options (1) Xamarin (2) Flutter (3) Ionic (4) React Native

(3) What is the primary advantage of using a single codebase?

Options (1) Faster development and easier maintenance (2) Better native performance (3) More complex debugging (4) Higher cost

(4) Which of the following is a reason to choose native development over cross-platform?

Options (1) Need for high performance and native features (2) Faster development (3) Lower cost (4) Code reusability

(5) What is a common limitation of cross-platform apps?

Options (1) Cannot run on Android (2) Delayed access to new platform features (3) No UI support (4) High development cost

(6) Which of the following is NOT a Dart feature?

Options (1) Ahead-of-time compilation (2) Just-in-time compilation (3) Manual memory management (4) Garbage collection

(7) Which environment executes Dart code?

Options (1) Node.js (2) Dart VM (3) JVM (4) Python Interpreter

(8) File extension for Dart source files:

Options (1) .d (2) .dt (3) .drt (4) dart

(9) Feature that makes Dart suitable for Flutter:

Options (1) Low-level hardware access (2) Hot reload (3) Manual memory management (4) Strong typing

(10) Which keyword is used to declare a variable in Dart?

Options (1) var (2) let (3) define (4) declare

(11) Which of the following is NOT a Dart datatype?

Options (1) int (2) double (3) str (4) bool

(12) Which symbol is used for single-line comments in Dart?

Options (1) // (2) -- (3) %% (4) "" ;

(13) Which keyword is used to import libraries in Dart?

Options (1) include (2) import (3) use (4) require

(14) Which loop is best when the number of iterations is unknown?

Options (1) for (2) while (3) do-while (4) foreach

(15) Which keyword is used to define a function in Dart?

Options (1) def (2) func (3) void (4) function

(16) Which operator is used for type test in Dart?

Options (1) is (2) typeof (3) instanceof (4) check

UDHNA COLLEGE

UNIVERSITY SEC_CROSS PLATFORM MAD - 1 Question paper

Question Set 1

Class Group: BCA Semester - IV

(17) Which keyword is used to create an object in Dart?

Options (1) new (2) create (3) object (4) instance

(18) Which feature allows Dart to run on multiple platforms?

Options (1) Portability (2) Static typing (3) Garbage collection (4) Hot reload

(19) Which keyword is used to define immutable runtime class members?

Options (1) final (2) const (3) static (4) var

(20) Which datatype can represent both int and double?

Options (1) num (2) decimal (3) float (4) number

(21) Which operator is used to check if a key exists in a map?

Options (1) containsKey (2) hasKey (3) exists (4) keyCheck

(22) Which widget is used to provide spacing between children in a Row or Column?

Options (1) Spacer (2) Divider (3) Gap (4) Padding

(23) Which feature allows Dart to run faster in production?

Options (1) Ahead-of-time compilation (2) Just-in-time compilation (3) Garbage collection (4) Hot reload

(24) Which Dart feature makes it memory safe?

Options (1) Garbage collection (2) Manual memory management (3) Pointers (4) Unsafe code

(25) Default value of uninitialized variables in Dart is:

Options (1) 0 (2) null (3) false (4) undefined

**UDHNA CITIZEN COMMERCE COLLEGE &
SPB COLLEGE OF BUSINESS ADMINISTRATION &
SMT. DIWALIBEN HARJIBHAI GONDALIA COLLEGE OF BCA & I.T.
UNIVERSITY EXAMINATION 2025-26
SYBCA(FOURTH SEMESTER)
CERTIFICATE COURSE**

**SUBJECT : Information Protection using Cyber Security Level -2
Question Set 1**

Time : 1 Hours

Total Marks:25

(1) Authentication Header (AH) provides:

Options (1) Encryption only (2) Authentication and integrity (3) Confidentiality only (4) Key exchange

(2) IPsec Tunnel mode is commonly used in:

Options (1) End-to-end communication (2) VPNs (3) Email security (4) Web browsing

(3) IPsec is mandatory in:

Options (1) IPv4 (2) IPv6 (3) TCP (4) UDP

(4) Which forensic technique is used to recover deleted files?

Options (1) Steganography (2) File carving (3) Hashing (4) Tokenization

(5) A VPN is mainly used to:

Options (1) Increase internet speed (2) Provide secure communication over public networks (3) Block all malware (4) Replace firewalls

(6) An Intrusion Detection System (IDS) is used to:

Options (1) Prevent intrusions automatically (2) Detect unauthorized access or attacks (3) Encrypt network traffic (4) Manage user accounts

(7) Which tool is an example of an IDS?

Options (1) Snort (2) Wireshark (3) Nessus (4) Metasploit

(8) Which are Components of IP Security?

Options (1) Encapsulating Security Payload (ESP) (2) Authentication Header (AH) (3) Internet Key Exchange (IKE) (4) All the mentioned

(9) WebGoat commonly uses which type of components?

Options (1) Proprietary components (2) Closed-source components (3) Open-source components (4) Hardware components

(10) _____ is used for encrypting data at network level.

Options (1) IPsec (2) HTTPS (3) SMTP (4) S/MIME

(11) In SSL, what is used for authenticating a message?

Options (1) MAC (Message Access Code) (2) MAC (Message Authentication Code) (3) MAC (Machine Authentication Code) (4) MAC (Machine Access Code)

(12) Which of the following is not a secured mail transferring methodology?

Options (1) POP3 (2) SSMTP (3) Mail using PGP (4) S/MIME

(13) Which of the below-mentioned scanner is used for Web application security scanner

Options (1) Nmap (2) Superscan (3) Nikto (4) OpenVAS

(14) User friendly static Password Cracking Tool

Options (1) L0phtCrack (2) THC Hydra (3) Ophcrack (4) John The Ripper

(15) John the ripper is highly support to

Options (1) Win32 (2) DOS (3) Unix (4) OpenVAS

(16) L0phtCrack is formerly known as _____.

Options (1) LC2 (2) LC4 (3) LC3 (4) None

(17) What is the main advantages of using HTTPS over HTTP?

Options (1) Faster data transmission (2) Strong password policies (3) improve server performance (4) Encrypted data transmission

(18) What is the primary purpose of HTTPS in web security?

Options (1) To serve as a backup protocol for HTTP (2) To encrypt data transmitted between a web server and a browser (3) To secure user authentication (4) To enable cross-origin resource sharing

(19) Which Section deals with cyber terrorism?

Options (1) 66 B (2) 66 C (3) 66 D (4) 66 F

(20) What is THC-Hydra primarily used for?

Options (1) Network scanning (2) Password cracking (3) Virus detection (4) Packet sniffing

(21) L0phtCrack extracts passwords using which option?

Options (1) Password reset option (2) Registry cleanup option (3) Dump passwords from registry option (4) Backup restore option

(22) Who wrote the Pwdump tool?

Options (1) Kevin Mitnick (2) Eric Raymond (3) Jeremy Allison (4) Linus Torvalds

(23) What is the purpose of the Beep option in John Ripper?

Options (1) To restart cracking process (2) To increase cracking speed (3) To alert when a password is found (4) To stop the program

(24) The Beep option value should start with which characters?

Options (1) T or F (2) 1 or 0 (3) Y or N (4) A or B

(25) What is a Brute-Force attack?

Options (1) Encrypting data using keys (2) Breaking a cipher by trying every possible key (3) Stealing passwords using phishing (4) Monitoring network traffic

UDHNA COLLEGE

CC-AI CHATBOTS (UNIVERSITY EXAMINATION:2025-26) Question paper

Question Set 2

Class Group: BCA Semester - IV

Subject: AI CHATBOTS

(1) How do AI chatbots improve student engagement in the learning process?

Options (1) By grading only multiple-choice questions (2) By grading only essays (3) By automating grading of assignments, quizzes, and tests and providing instant feedback (4) By eliminating the need for feedback entirely

(2) How can Bard be useful for market research?

Options (1) By summarizing trends, competitor analysis, and consumer behavior insights (2) By generating marketing graphics (3) By running paid ads for businesses (4) By compiling large volumes of raw data

(3) In content creation, what specific task can ChatGPT assist with?

Options (1) Creating video animations (2) Designing graphics and logos (3) Writing product descriptions, blog posts, and social media content (4) Conducting market surveys

(4) What is one limitation of ChatGPT?

Options (1) It cannot understand human language. (2) It requires manual updates to generate new responses. (3) It always provides 100% accurate answers. (4) It generates responses based on patterns without understanding context.

(5) In which area are AI chatbots commonly used?

Options (1) Data encryption (2) Customer support (3) Hardware design (4) Software coding

(6) What is a key feature of LaMDA?

Options (1) It can generate static, fact-based answers only (2) It primarily performs image analysis (3) It is designed for open-ended, natural conversations across various topics (4) It is used only for text summarization

(7) Which technology enables chatbots to understand and respond to user inputs?

Options (1) Data Processing (2) Network Optimization (3) Natural Language Processing (NLP) (4) Cloud Computing

(8) In the IBM Watson case study, what did the "Watson Tutor" AI chatbot provide to students?

Options (1) Personalized tutoring and learning paths based on student performance (2) Only administrative support (3) General advice on career paths (4) Pre-recorded lessons without any interactivity

(9) How can ChatGPT support mental health efforts?

Options (1) By diagnosing mental health disorders (2) By providing emotional support and suggesting coping mechanisms (3) By offering real-time therapy sessions (4) By replacing healthcare professionals in counseling

(10) How do AI chatbots impact businesses?

Options (1) By improving customer engagement and reducing response times (2) By increasing operational costs (3) By replacing management roles entirely (4) By reducing data-driven decision-making

(11) What is one opportunity presented by AI chatbots in education?

Options (1) AI chatbots are only available during school hours (2) AI chatbots can provide personalized learning experiences based on individual student progress and needs (3) AI chatbots make learning completely passive (4) AI chatbots are incapable of automating any administrative tasks

(12) What is Bard's primary feature?

Options (1) Generating visual art (2) Engaging in natural, human-like conversations (3) Running complex software programs (4) Compiling large datasets

(13) How can you improve the quality of ChatGPT's responses?

Options (1) By providing it with detailed context or background information (2) By asking only very basic questions (3) By giving it random inputs to test it (4) By continuously correcting its answers

UDHNA COLLEGE

CC-AI CHATBOTS (UNIVERSITY EXAMINATION:2025-26) Question paper

Question Set 2

Class Group: BCA Semester - IV

(14) What is LaMDA's primary goal in conversational AI?

Options (1) To generate technical documentation (2) To handle only structured queries (3) To perform machine learning tasks (4) To engage users in human-like, open-ended conversations

(15) What is a hybrid chatbot?

Options (1) chatbot that switches between voice and text interfaces (2) A chatbot that supports multiple programming languages (3) A chatbot that combines rule-based and AI-powered features (4) A chatbot that operates both online and offline

(16) What is one key impact of using AI chatbots like Marvin in educational institutions?

Options (1) They replace all faculty and staff (2) They focus solely on grading assignments (3) They offer faster, more efficient access to key information and improve student satisfaction (4) They limit students' access to information outside school hours

(17) How can AI chatbots help with educational administration?

Options (1) By automating grading only (2) By replacing teachers with automated lessons (3) By eliminating all administrative tasks (4) By helping students with administrative tasks like scheduling, assignment tracking, and more

(18) How does Megatron-Turing NLG assist businesses with sentiment analysis?

Options (1) By detecting emotions in customer photos (2) By analyzing customer reviews or social media posts to determine public sentiment (3) By organizing customer data in spreadsheets (4) By managing customer service chatbots

(19) Can Bard generate content such as stories and articles?

Options (1) No, Bard only answers factual questions. (2) No, Bard is designed only for customer service interactions. (3) Yes, Bard can help generate creative content like stories and poems. (4) Yes, but only for academic research papers.

(20) Which of the following is NOT a typical use case of LaMDA?

Options (1) Engaging in open-ended, natural conversations (2) Handling customer support inquiries (3) Generating static factual content (4) None of the Mentioned

(21) Which chatbot type is most suitable for complex problem-solving?

Options (1) Rule-based chatbot (2) AI-powered chatbot (3) Decision-tree chatbot (4) Button-based chatbot

(22) How does Bard differ from traditional search engines like Google Search?

Options (1) Bard only provides links to websites without summarizing content. (2) Bard does not use AI to answer questions. (3) Bard operates offline only. (4) Bard generates direct, conversational responses to queries rather than links.

(23) What is a common application of GPT-Neo in creative content creation?

Options (1) Generating articles, stories, scripts, and poetry (2) Editing visual content (3) Producing and editing music (4) Generating physical art for exhibitions

(24) How does Bard's AI model (LaMDA) enhance its performance?

Options (1) By limiting its knowledge to specific topics only (2) By focusing on delivering short, factual answers (3) By allowing Bard to engage in natural, flowing conversations (4) By connecting to Google Maps for location-based queries

(25) How can ChatGPT function as a personal assistant?

Options (1) By helping with scheduling, reminders, and answering questions (2) By sending text messages on behalf of the user (3) By attending meetings on behalf of the user (4) By taking control of all smart devices in the house

VEER NARMAD SOUTH GUJARAT UNIVERSITY
Examination March- 2026
SYBCA (NCF-NEP) SEMESTER-IV
Subject Code 2511000904011001
Course Code 403-MJ1-Java Programming Language



a.m.a.m

Time _____ p.m _____ p.m

_____ day _____

Instruction (1) All question are compulsory.

(2) Figures to the right indicate full marks

Time: 1 Hour

Total Marks: 25

N.B.: Gujarati Version of a question and its option to be written first English Version of each question should follow the Gujarati Version of each question.

TO be filled by the Press.

Note. Full Marks of each question to be indicated in a circle at the right end of the first line of each question e.g. .(10)

Q.1. Answer the following (Any 5)

5

1. Which of the members cannot be inherited from a super class to subclass

A) Private B) Default c) protected D) public

2. The Class at the top of exception class hierarchy is-

A) ArithmeticException B) Object
C) Throwable D) Exception

3. Which of the following C++ features is not supported by Java language?

A) Class B) Constructor C) Destructor D) Object

4. All the methods of interface are?

A) Final B) Abstract C) Private D) Static

5. Java compiler generate which type of code?

A) Class code B) Machine code C) Object code D) Byte code

6. What is the value of MAX PRIORITY for a thread?

A) 10 B) 15 C) 100 D) 20

7. Which of his method is used to find out that a thread is still running or not. ?

A) IsActive() B) IsLive() C) isRun() D) None of the above

Q.2.

(A) Explain features of Java Programming language. 4

OR

(A) Explain static keyword with example.

(B) List methods of String class. Explain any two methods of String class. 4

OR

(B) Write difference between String and StringBuffer class.

Q.3. (A) what is an interface? Why it is needed? 4

OR

(A) Explain thread life cycle.

(B) Explain package creation and import with suitable example. 4

OR

(B) Explain exception in Java.

Q.4. Explain singly linked list with its function. 4

OR

Explain circular link list with its function.

VEER NARMAD SOUTH GUJARAT UNIVERSITY
Examination April 2026
BCA (PRACTICAL) APRIL -2026 (FOURTH SEM)
Subject Code: 2511000904011002-A
MAJOR-1-403-JAVA PROGRAMMING LANGUAGE (PR)



[Time: Two Hours]

[Total Marks: 25]

Q. 1 Write an application that execute two Threads. One thread display "BCA" every 1000 milliseconds and the other displays "MCA" every 3000 milliseconds. Create the threads by extending the thread class. **[20 Marks]**

Q. 2 Viva and Journal

[05 Marks]

VEER NARMAD SOUTH GUJARAT UNIVERSITY

Examination April 2026

BCA (PRACTICAL) APRIL -2026 (FOURTH SEM)

Subject Code: 2511000904022002-A

MAJOR-2-404-NET PROGRAMMING (PR)



[TIME: 2 hours]

[Marks: 25]

Q1 Create application to manage car selling data: Consider following table and perform given operation: (20)

Carmaster (car_no, car_name, model, price, quantity_sold)

1. Provide insert and update facilities.
2. Display information of maximum sold car.

Q2 Viva + Journal

(5)

VEER NARMAD SOUTH GUJARAT UNIVERSITY

Examination April 2026

BCA (PRACTICAL) APRIL -2026 (FOURTH SEM)

Subject Code: 2511000904033002-A

MAJOR-3-405-01-WEB DESIGNING - II (PR)



Time: 2 Hours

Total Marks: 25

Instructions:

1) Use assumptions where and when ever required.

Q-1 Create the website for Online Mobile store with following pages:

[20]

1. Login page
2. Mobile data page

Do the following:

1. Give proper validation to login page.
2. Create one XML file called **mobiledata.xml** that contains mobile data like brand name, mobile name, price.
3. Mobile detail page should display mobile data in HTML table format by reading **mobiledata.xml** file.

Note: Give effect using jQuery and CSS.

Q-2 Viva-voce

[5]

VEER NARMAD SOUTH GUJARAT UNIVERSITY
Examination April 2026
BCA (PRACTICAL) APRIL -2026 (FOURTH SEM)
Subject Code: 2511000904033004-A
MAJOR-3-405-02-MOBILE APPLICATION DEVELOPMENT - II
(PR)



Time : 2 Hours]

[Total Marks : 25

Q - 1 Develop a Mobile Application for Food Ordering to perform following task: [20]

1. Login Screen.
2. Display a list of food items with a search facility to find specific dishes.
3. Add to cart or remove items by clicking on any food item in the list.

Q - 2 Viva + Journal

[05]

VEER NARMAD SOUTH GUJARAT UNIVERSITY
B.C.A. (NEP) S.Y. (Semester-IV)
Examination March-April- 2026
403-Java Programming Language (PR)



[Time: Two Hour]

[Total Marks: 25]

Q.1 Create a Menu driven program to implement Singly Linked list and perform operation like create, traverse, insert and delete node. **[20 Marks]**

Q.2 Viva and Journal **[05 Marks]**

0211 Ushma Chitvan Chatterjee & Smt. Divyashree Chatterjee
College & SPP & M.C.B. Gandhinagar Gandhinagar

VEER NARMAD SOUTH GUJARAT UNIVERSITY

Examination April 2026

BCA (PRACTICAL) APRIL -2026 (FOURTH SEM)

Subject Code: 2511000904022002-B

MAJOR-2-404 .NET PROGRAMMING (PR)



[TIME: 2 hours]

[Marks: 25]

Q1 Create VB.NET application to maintain item information.

[20]

ItemMst (ItemNo, itemName, Cost, Quantity)

Design proper form which perform Insertion and deletion. Also Search for a particular item. Also generate report of out of stock item name in data grid view.

Q2 Viva + Journal

[5]

VEER NARMAD SOUTH GUJARAT UNIVERSITY
Examination April 2026
BCA (PRACTICAL) APRIL -2026 (FOURTH SEM)
Subject Code: 2511000904033002-B
MAJOR-3-405-01-WEB DESIGNING - II (PR)



Time: 2 Hours

Total Marks: 25

Instructions:

1) Use assumptions where and when ever require.

Q1: Create a JSON / XML file for students of different classes (Rollno, Name, Class, Contactno, email). (10 Marks)

Q2: Create Student details page that reads data from the above created JSON file using AJAX with button name as Show Student Details Class wise and display in proper format. Use of jQuery or CSS is essential. (10 Marks)

Q3: Viva

(5 Marks)

VEER NARMAD SOUTH GUJARAT UNIVERSITY
Examination April 2026
BCA (PRACTICAL) APRIL -2026 (FOURTH SEM)
Subject Code: 2511000904011002-C
MAJOR-1-403-JAVA PROGRAMMING LANGUAGE (PR)



[Time: Two Hour]

[Total Marks: 25]

Q.1 Write a program to design a String class that performs following operation containing String "I Love Java Programming".
(20)

- Display length of the String.
- Display the first character from the String.
- Display the last character from the String.
- Display the first word in the String.
- Change the case of String.
- Trim the string

Q.2 Viva and journal

(5)

VEER NARMAD SOUTH GUJARAT UNIVERSITY

Examination April 2026

BCA (PRACTICAL) APRIL -2026 (FOURTH SEM)

Subject Code: 2511000904033002-C

MAJOR-3-405-01-WEB DESIGNING - II (PR)



Time : 2 Hours

Total Marks:25

- 1. Create a json file called books.json that contains BookNo, Title, AuthorName, PublisherName, PublicationYear etc. Display the book information for publication year 2020 in proper format on HTML page. (Use Ajax to read the customer data from the json file. Also use jQuery, css, bootstrap wherever required). [20]**

2. VIVA + JOURNAL

[5]

VEER NARMAD SOUTH GUJARAT UNIVERSITY

Examination April 2026

BCA (PRACTICAL) APRIL -2026

Subject Code: 2511000904033002-E

MAJOR-3-405-01-WEB DESIGNING - II (PR)



Time: 2 Hours

Total Marks: 25

Instructions:

1) Use assumptions where and when ever require.

Q-1 Create the website for Online Book store with following pages: [20]

- 1. Login page**
- 2. Book Detail page**

Do the following:

- 1. Give proper validation to login page.**
- 2. Create one XML file called bookdata.xml that contains book data like book name, author, publication, price.**
- 3. Book detail page should display Book data in HTML table format by reading bookdata.xml file.**

Note: Give effect using jQuery and CSS.

Q-2 Viva-voce

[5]

VEER NARMAD SOUTH GUJARAT UNIVERSITY

Examination April 2026

BCA (PRACTICAL) APRIL -2026

Subject Code: 2511000904022002-E

MAJOR-2-404-.NET PROGRAMMING (PR)



[TIME: 2 hours]

[Marks: 25]

Q1 Create VB .Net application to maintain information with following database tables. (20)

BookMaster (BookNo [Primary Key], BookName, BookPrice)

Perform Insert and Delete operation on it. Perform Search by Book name operation, that display information in Data Grid

Q2 Viva + Journal

(5)

VEER NARMAD SOUTH GUJARAT UNIVERSITY
Examination April 2026
BCA (PRACTICAL) APRIL -2026
Subject Code: 2511000904011002-E
MAJOR-1-403-JAVA PROGRAMMING LANGUAGE (PR)



[Time: Two Hour]

[Total Marks: 25]

Q.1 Write a Java program to demonstrate runtime polymorphism using inheritance and method overriding.

[20]

- Create an abstract base class **Shape** with an abstract method **calculateArea ()**.
- Derive two classes **Circle** and **Square** from Shape.
- Override the **calculateArea ()** method in both derived classes to compute and display the area of the respective shape.
- In the **main()** method, use a base class reference (**Shape**) to call the **calculateArea ()** method for both a Circle and a Square object.
- Show how dynamic method dispatch ensures the correct method is executed at runtime.

Q.2 Viva and journal

[05]

VEER NARMAD SOUTH GUJARAT UNIVERSITY
Examination April 2026
BCA (PRACTICAL) APRIL -2026
Subject Code: 2511000904033004-E
MAJOR-3-405-02-MOBILE APPLICATION DEVELOPMENT - II
(PR)



Time : 2 Hours]

[Total Marks: 25

Q - 1 Develop a mobile application or flutter application for Event Registration in [20]
which user can:

- Enter name and mobile number
- Select event type using Dropdown
- Select event date using DatePicker
- Enable notification option using Switch
- Submit details and display confirmation using Alert Dialog

Q - 2 Viva + Journal

[05]