

Seat No : _____

BCA SEM - II**Term End Internal Examination Mar : 2025****Subject Code : 12-CAM207-1C****Subject Name : Python Programming****[Time : 2 Hours]****[Total Marks : 50]**

Do As Directed.		[10]	CO	BL
Q-1				
1.	What is PVM?.		1	1
2.	List four built-in data types.		1	1
3.	Compare memory management in C and Python.		2	2
4.	Write a program to check even/odd.		2	3
5.	Explain read and write text file in file handling.		3	2
Q-2	Attempt Following [Any Three]	[12]		
1.	Explain four Python features.		1	2
2.	Write a list comprehension to filter even numbers.		2	3
3.	Explain four string methods with examples.		3	2
4.	Write a program to read a file line by line.		4	3
5.	Discuss Python memory management.		1	5
Q-3	Attempt Following [Any Four]	[28]		
1.	Explain different types of loops in Python with examples.		2	2
2.	Demonstrate the use of list methods with suitable examples.		3	3
3.	Explain different types of operators.		2	2
4.	Explain file handling modes in Python with examples.		4	2
5.	Write a Python program to remove duplicate elements from a list.		3	3
6.	Write a Python program to find the largest element in a list.		4	3

Seat No : _____

BCA SEM - II**Term End Internal Examination March: 2025****12-CAE208-1C: Java Script & CSS Boot Strapping with HTML****Time: 2 Hours]****[Total Marks : 50]**

Q-1 Do As Directed [Any Five]		12	CO	BL
1.	Define JavaScript in one sentence.	1	1	
2.	Difference between JavaScript and java	1	2	
3.	What is an object in JavaScript?	3	2	
4.	What is a prompt box in JavaScript?	3	2	
5.	Explain use of inner HTML in JavaScript with example.	4	4	
6.	What is the DOM and BOM?	3	2	
Q-2 Do As Directed [Any Two]		14		
1.	Describe the different data types in JavaScript.	1	4	
2.	Explain advantage and disadvantage of JavaScript?	1	4	
OR				
1.	Provide examples of creating and accessing objects in JavaScript.	2	3	
2.	What is an array, and how do you declare it in JavaScript?	4	6	
Q-3 Attempt the following [Any Three]		24		
1.	Describe the purpose of loops in JavaScript. How do while, for, and do-while loops differ?	4	5	
2.	What is operators? Describe the various types of operators available in JavaScript?	2	3	
3.	Explain following array methods with example concat(), length(), toString(), join(), pop(), push(), slice(), sort(), reverse()	3	4	
OR				
1.	What is an object in JavaScript?	4	4	
2.	What is the DOM in JavaScript? Explain how the DOM represents HTML documents as tree structures	3	5	

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BCA SEM - II

Seat No : _____

Internal Examination March : 2026

22-CAM105-1C : Operating System

Time : 1.5 Hours]

[Total Marks : 40

Q-1 Do As Directed.

[08]

CO BI

1. What is an Operating System?
2. What is the difference between copy and move?
3. What is Microsoft Excel used for?
4. What is Windows Firewall?
5. Why are Ease of Access tools important?

1	1
2	2
1	1
3	2
4	2

Q-2 Attempt the Following. (Any Two)

[12]

1. Define an Operating System and explain its main functions.
2. Explain how to change Wallpaper and Screen Saver in Windows.
3. Explain the steps to create, copy, move, and delete files and folders in Windows.

1	2
2	3
2	3

Q-3 Attempt the Following. (Any Four)

[20]

1. Explain the "System and Security" section in Control Panel. Describe its importance and main components.
2. What is Microsoft Windows? Explain its main features.
3. Describe different Ease of Access tools and their functions.
4. Explain how to manage programs in Windows, including installing and uninstalling software.
5. Explain how to set up external devices such as Printer, Scanner, Wi-Fi, and LAN Cable in Windows.

3	4
1	2
4	4
2	3
4	3

Seat No : _____

BCA SEM - II

Internal Examination March : 2026

22-VAC102-1C Indian Constitution

[Time : 1.5 Hours]

[Total Marks : 40]

Q-1 Do As Directed. (Any Four)	[08]	CO	BL
1. State the significance of Article 32 of the Indian Constitution.		2	3
2. State any two powers of the President of India.		3	2
3. Name the three tiers of local government in India.		5	1
4. Who appoints the Chief Minister in a state? (A) President (B) Governor (C) Prime Minister (D) Temperature		4	2
5. Define the Constituent Assembly.		1	1
Q-2 Attempt the Following. (Any Two)	[12]		
1. Explain the classification of Fundamental Rights with suitable examples		2	2
2. Explain the importance of the State Cabinet in assisting the Chief Minister with day-to-day governance.		4	3
3. Discuss the powers and functions of the President of India		3	4
Q-3 Attempt the Following. (Any Four)	[20]		
1. Describe the composition and functions of Lok Sabha and Rajya Sabha.		2	3
2. Explain the roles and functions of Municipal Corporation and Zila Panchayat.		4	5
3. Explain the historical background of the making of the Indian Constitution.		2	1
4. Explain the structure of the Union Government.		2	3
5. Explain the powers and functions of the Governor.		2	4

Date:

Total

BCA SEM - 2

Seat No : _____

Term End Internal Examination Mar : 2025

12-AEC104-1C : Communication Skills-I

[Time : 2 Hours]

[Total Marks : 50]

Do As Directed.		[16]
Q-1		
1.	Define the "Tense".	2
2.	_____ Communication includes tone of voice, body language, facial expressions etc. A. nonverbal B. verbal C. letter D. notice	2
3.	What is the correct future perfect tense: "By next year, I _____ my degree." a) will complete b) will have completed c) have completed d) completed	2
4.	Define the term "communication barrier" and give one example.	2
5.	List the four skills of LSRW.	2
6.	What are the four CS of writing?	2
7.	List four criteria for effective communication.	2
8.	Choose the correct preposition: "The book is _____ the table." A) in B) on C) at D) under	2
Q-2	Attempt Following [Any Two]	[14]
1.	Describe the objectives and levels of communication.	7
2.	Describe the traits of a good listener with examples	7
3.	Explain the four CS of effective writing in detail.	7
Q-3	Attempt Following [Any Two]	[20]
1.	Write a job application for the post of "English teacher" in Nutan high school Visnagar.	10
2.	Write a leave application to your college principal for Family function.	10
3.	Write a complain to government authorities Regarding "poor maintenance of the garden and improper waste disposal".	10

----- All The Best -----

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BCA SEM - II

Seat No : _____

Internal Examination Mar : 2026

22-CAM104-1C Database Management System

Time : 1.5 Hours

Total Marks : 40

Q-1 Do As Directed. (Any Four)

[08] CO BL

1. Define Data & Database.
2. What is data security?
3. What is backup and recovery?
4. List different types of DBMS users.
5. Differentiate DA and DBA.

1	2
1	2
6	2
2	1
2	4

Q-2 Attempt the Following. (Any Two)

[12]

1. Discuss Components of Database System in details.
2. Discuss Functions of DBMS in details.
3. Explain Different Types of DBMS Users in detail.

1	2
1	2
2	4

Q-3 Attempt the Following. (Any Four)

[20]

1. Explain Advantages and Disadvantages of DBMS.
2. Discuss Roles of Database Users and Administrators.
3. Explain the Role of a Database Administrator (DBA) in Database Management.
4. Explain the essentials of database design.
5. Explain the Three-Level Architecture of a Database System.

1	2
2	2
2	4
4	4
3	4

Seat No : _____

BCA SEM - II

Term End Internal Examination Mar : 2025

12-MDC211-1C : STATISTICAL COMPUTING

[Time : 2 Hours]

[Total Marks : 50]

Q-1 Do As Directed.

[10]

C
O
L

- 1) What is Frequency Distribution?
- 2) Explain Mean deviation and write all basic formula of Co-efficient of Mean deviation?
- 3) What is Scatter Diagram?
- 4) What Is Meaning Of Population And Sample?
- 5) Explain Range and Co-efficient of Range with suitable example?

1	1
2	2
1	1
1	1
1	1

Q-2 Attempt Following [Any Three]

[12]

- 1) Calculate the average for the following information by (a) Direct method and (b) Step Deviation method (Short Cut Method)

3 3

Class-interval	10-19	20-29	30-39	40-49	50-59
Frequency	8	8	15	11	8

- 2) Find Standard Deviation from mean from the following data :

3 3

Size	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	7	12	10	8	3	2	7

- 3) Find rank correlation co-efficient:

3 3

X	123	108	123	137	156	108	107	136	156	107
Y	168	158	168	189	197	169	189	179	180	186

- 4) What is the Difference Between Population Survey V/S Sample Survey?

2 2

- 5) Calculate the coefficient of correlation between X and Y from the following data. Assume 69 and 112 as the mean value for X and Y respectively.

3 3

X	78	89	99	60	59	79	68	61
Y	125	137	156	112	107	136	123	108

Shri C. J. Patel College of Computer Studies, Visnagar
Term End Internal Examination Mar : 2025
12-CAM301-1C: Advance Programming using C
[Time:-2:00 Hours] [Total Marks: 50]

Q-1 Do As Directed [Any Six]

[12]

	CO	BL
1 Define the term "User define Function."	1	1
2 Explain the concept of auto variables	3	3
3 What is call by value.	1	1
4 Provide examples of structures.	2	3
5 Define what a pointer is.	2	1
6 Provide the general syntax of fopen()	4	2
7 Analyze the use of malloc() function.	4	4

Q-2 Do As Directed [Any Three]

[18]

1 Explain the categories of user-defined functions based on argument and return type.	1	2
2 What is File? Give advantages of file.	1	2
3 Explain an array within a structure.	2	2
4 Explain pointers to arrays with examples.	2	3
5 Analyze call by reference with a suitable program.	2	4

Q-3 Attempt the following [Any Four]

[20]

1 Explain getw() and putw() with examples.	4	3
2 Describe static variables and their usage.	3	3
3 Provide examples of pointers to strings.	2	3
4 List the differences between structures and unions.	1	2
5 Write a program to check the given number is Palindrome or not using User Defined Function (UDF).	4	6
6 Write a program to use of pointer in arithmetic operation	4	6

BCA SEM - II

Seat No : _____

Internal Examination Mar : 2026

22-CAM103-IC Probability and Statistics

: 1.5 Hours]

[Total Marks : 40

Define Following.

[04] CO BI

Secondary Data.

1 1

Class Interval

2 1

Exclusive Class

1 2

Sample

1 1

Relative Frequency

1 1

Attempt the Following. (Any Three)

[18]

Find the missing frequency from the following data when median is 24.

Class-interval	0-10	10-20	20-30	30-40	40-50
Frequency	5	25	?	18	7

3 2

The mean of 200 items was 50. Later on it was discovered that two items were wrongly read as 92 and 8 instead of 192 and 88.

3 3

Find the correct mean.

Describe Advantage and Disadvantage of Mean.

2 3

Find the Mode from the following data.

Marks	10-19	20-29	30-39	40-49	50-59	60-69	70-79
Frequency	8	19	29	36	25	13	4

2 4

Attempt the Following. (Any Three)

[18]

The mean and standard deviation of sample of 100 observations were calculated as 40 and 5.1 respectively. By a student who

3 4

took by mistake 50 instead of 40 for one observation. Calculate the correct mean and standard deviation

Population Vs. Sample

2 2

Explain Six Stages to Sampling Procedure

3

Calculate Variance and its Coefficient from the following Data.

Class-interval	0-10	10-20	20-30	30-40	40-50
Frequency	4	6	10	5	5

3 4

Seat No : _____

BCA SEM - VI Mid – II Internal Examination Mar : 2026

16-CAM311-3C Software Testing

Time : 1.5 Hours

Total Marks : 40

Do As Directed. (Any Four)

[08] CO BL

Define Manual Testing and Automation Testing.

2 4

Differentiate Functional & Regression Testing.

2 1

Define Statement Coverage, Branch Coverage, and Path Coverage in White Box Testing.

1 3

Define Selenium.

5 1

What is defect management?

4 2

Attempt the Following. (Any Two)

[12]

Define Software Testing. Explain its Objectives and Importance.

1 2

Explain Black Box Testing in detail. Discuss Boundary Value Analysis (BVA) with suitable example and figure.

1 3

Explain Automation in Software Testing in detail. Discuss its role, need, and importance in modern software development.

2 2

Attempt the Following. (Any Four)

[20]

Discuss Security Testing and Performance Testing in Detail.

2 4

Explain Phases of Software Testing Life Cycle (STLC) in detail.

1 2

Explain Gray Box Testing with advantages, disadvantages, example, and figure.

1 3

Explain JUnit and TestNG testing tools in detail.

5 2

Explain the advantages and limitations of Automation Testing Tools.

2 4

BCA SEM - ~~VI~~

Seat No : _____

Internal Examination Mar : 2026

22-SEC102-1C Problem Solving Techniques-II

: 1.5 Hours]

[Total Marks : 40

Do As Directed. (Any Four)**[08]****CO****BL**

Define function with its syntax.

1

1

What is a Structure? Provide examples of structures.

2

1

Define Auto Variable, and Register variable.

3

3

Define the scale factor.

3

2

Define what a pointer is. How to declare and initialize a pointer.

2

2

Attempt the Following. (Any Two)**[12]**

List out category of function. Explain function with argument with return value

1

6

What are Storage classes? Explain Automatic variable with example.

2

3

Perform Sum, Division, Multiplication, and Subtraction of two number using pointers.

2

4

Attempt the Following. (Any Four)**[20]**

Analyze the concept of recursion with examples.

1

4

Explain the concept of a union. Compare and contrast structures and unions.

3

5

Explain arrays of structures with suitable examples.

4

3

Explain pointers to arrays with examples.

5

2

Write a C program to check the given number is prime or not using the user define function (UDF).

2

4

Seat No : _____

Shri C. J. Patel College of Computer Studies, Visnagar

BCA SEM – III Internal Examination Test-2024

1CS1010302: ADVANCE DATABASE MANAGEMENT SYSTEM

Time : 2 Hour

Total Marks : 50

Do As Directed [Any Eight]

[08]

Q-1

1. What is RDBMS?
2. What is Truncate?
3. What is Revoke?
4. What is Save point?
5. How to Work Group By Clause?
6. How to Used Sub query in Oracle?
7. What is Views?
8. What is Sequences?
9. How to Used Drop Command?
10. What is CEIL() function in SQL?

Q-2

Do As Directed [Any Seven]

[14]

1. Explain any 2 String Functions with SQL Query?
2. Explain any 2 Numeric Functions with SQL Query?
3. What are Aggregate functions? How to Used Count () Function.
4. Explain any 2 Date Time Functions with SQL Query?
5. What is Left Join and Right Join?
6. What is I/O Constraints? Explain Null and Not Null().
7. What is Set operators?
8. Different between ADBMS Vs. RDBMS
9. What is Indexes?

Q-3 Attempt Following [Any Four] [28]

- | | | | |
|----|---|---|---|
| 1. | Give the Side of a Square to be 4cm. find the length of the diagonal. | 5 | 1 |
| 2. | Prove that PYTHAGOREAS THEOREM. | 5 | 3 |
| 3. | What are Cylindrical Coordinates? | 4 | 2 |
| 4. | The Side of a triangle is 5,12 and 13 unit. Check if it has a right angle or not. | 5 | 2 |
| 5. | Justify Theory of Number. | 4 | 5 |
| 6. | Explain Basic of Algebra | 2 | 2 |

----- All The Best -----

BCA SEM - 3

Seat No : _____

Internal Examination Oct : 2025

13-IKS109-2C VEDIC MATHEMATICS

Time : 1.5 Hours]

[Total Marks : 40

Q-1 Do as Directed.

- | | | | |
|---|------|----|----|
| | [08] | CO | BL |
| 1. Solve this problem :- (a) $642 - 317$ | | 2 | 3 |
| 2. Classify Mathematic Computation: $[- 3 + [6(11+1-4)] \div 8 \times 2]$ | | 4 | 4 |
| 3. What are the three types of coordinate System? | | 4 | 2 |
| 4. Evaluate that Squawroot's: (a) $\sqrt{3136}$ (b) $\sqrt{6241}$ | | 2 | 5 |
| 5. Identify Cube root: - (a) $\sqrt[3]{91125}$ (b) $\sqrt[3]{117649}$ | | 2 | 1 |

Q-2 Attempt the Following. (Any Two)

[12]

- | | | |
|--|---|---|
| 1. Give the Side of a Square to be 4cm. find the length of the diagonal. | 5 | 1 |
| 2. Prove that PYTHAGOARS THEOREM. | 5 | 3 |
| 3. What are Cylindrical Coordinates? | 4 | 2 |

Q-3 Attempt the Following. (Any Four)

[20]

- | | | |
|--|---|---|
| 1. The Side of a triangle is 5,12and13 unit. Check if it has a right angle or not. | 5 | 2 |
| 2. Justify Theory of Number. | 4 | 5 |
| 3. Explain Basic of Algebra. | 2 | 2 |
| 4. What is the Principal of Vedic Mathematics? | 4 | 2 |
| 5. What is $543+289543 + 289543+289$ using Vedic addition? | 4 | 2 |
| 6. Modify $804-215804 - 215804-215$ using Vedic-subtraction? | 4 | 5 |
| 7. List the 16 main sutras of Vedic Math's and explain any two In detail. | 2 | 2 |
| 8. Illustrate with an example. | 4 | 2 |
| 9. Define midd point with Vedic maths: A(2,4) AND B(4,10). | 4 | 2 |
| 10. Explain how many Vedic maths's formula use in our society. | 4 | 2 |

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BCA SEM - III

Internal Examination OCT - 2025

13-MDC215-2C : Project Management using Business Analytics

[Time : 1.5 Hours]

[Total Marks : 40]

Q-1 Do As Directed.

[08] CO BL

- 1) Define the scope of business analytics.
- 2) List one characteristic of documentation.
- 3) Define project planning.
- 4) What is an in-house project?

1	2
2	1
2	2
3	1

Q-2 Attempt Following. [Any Two]

[12]

- 1) Trace the historical development of business analytics and its evolution over time.
- 2) Discuss the key characteristics of effective documentation and the different types of documentation used in projects.
- 3) Explain the primary purposes of project documentation and the challenges associated with it.

1	4
2	4
2	2

Q-3 Attempt Following. [Any Three]

[20]

- 1) Discuss the various components of project documentation,
- 2) Describe the role of project leadership in ensuring effective project documentation and planning.
- 3) Discuss the different categories of projects (in-house, internship, external) and their respective characteristics.
- 4) Discuss the dynamics of managing different types of projects and the challenges associated with each.

2	4
4	3
3	4
4	5

----- All The Best -----

BCA SEM - 3

Internal Examination Oct : 2025

Seat No : _____

13-IKS109-2C VEDIC MATHEMATICS

Time : 1.5 Hours]

[Total Marks : 40

Q-1 Do as Directed.

1. Solve this problem :- (a) $642 - 317$
2. Classify Mathematic Computation: $[-3 + [6(11+1-4)] \div 8 \times 2]$
3. What are the three types of coordinate System?
4. Evaluate that Squawroot's: (a) $\sqrt[3]{136}$ (b) $\sqrt[3]{6241}$
5. Identify Cube root: - (a) $\sqrt[3]{91125}$ (b) $\sqrt[3]{117649}$

[08]	CO	BL
	2	3
	4	4
	4	2
	2	5
	2	1

Q-2 Attempt the Following. (Any Two)

[12]

1. Give the Side of a Square to be 4cm. find the length of the diagonal.
2. Prove that PYTHAGOARS THEOREM.
3. What are Cylindrical Coordinates?

5	1
5	3
4	2

Q-3 Attempt the Following. (Any Four)

[20]

1. The Side of a triangle is 5,12and13 unit. Check if it has a right angle or not.
2. Justify Theory of Number.
3. Explain Basic of Algebra.
4. What is the Principal of Vedic Mathematics?
5. What is $543+289543 + 289543+289$ using Vedic addition?
Modify $804-215804 - 215804-215$ using Vedic subtraction?
6. List the 16 main sutras of Vedic Math's and explain any two In detail.
7. What is the method of multiplication using Vedic Sutras?
Illustrate with an example.
8. Define midd point with Vedic math's'(2,4) AND B(4,10).
9. Explain how many Vedic maths's formula use in our society.

5	2
4	5
2	2
4	2
4	2
4	5
2	2
4	2
4	2

Seat No : _____

BCA SEM - III

Term End Internal Examination Oct : 2024

11-CAE203-1C : WD-Using HTML & CSS

[Time : 2 Hours]

[Total Marks : 50]

Q-1 Do As Directed.

[10]

CO

BL

1. Define CSS? Which are the types of CSS?
2. Define any four basic html tags.
3. What is website?
4. Write code of Internal CSS.
5. Define the Types of frameset.

2

1

2

1

1

1

2

1

2

1

Q-2 Attempt Following [Any Three]

[12]

1. Explain the basic Structure of an HTML Document.
2. Discuss order list and unordered list with example.
3. Explain CSS with example.
4. What is HTML? Discuss its role in Web Development.
5. Discuss Selection/drop-down list. With example.

2

2

2

2

2

2

1

2

2

2

Q-3 Attempt Following [Any Four]

[28]

1. Define Internet, Intranet and Extranet. Discuss difference.
2. Create Code for simple webpage about CJPATEL.
3. Discuss the advantages and disadvantages of CSS?
4. Discuss difference between inline, external, and internal style sheets.
5. Create Bio-data using Table Tag.
6. Discuss the advantages and disadvantages of Frames.

1

2

1

6

2

2

2

2

2

6

2

6

Seat No : _____

BCA SEM - III**Second Internal Examination Oct : 2025****13-CAM214-2C Database Management System****Time : 1.5 Hours]****[Total Marks : 40****Q-1 Do As Directed. (Any Four) [08] CO BL**

- | | | |
|---|---|---|
| 1. Define: Database , DBMS | 1 | 1 |
| 2. List out type of data Model | 3 | 2 |
| 3. What is de-normalization? | 4 | 3 |
| 4. What is a strong entity? Give example of strong entity | 3 | 2 |
| 5. What is a domain? Give relevant Example | 3 | 1 |

Q-2 Attempt the Following. (Any Two) [12]

- | | | |
|---|---|---|
| 1. Describe the three levels of database architecture | 2 | 4 |
| 2. Discuss characteristics of data in database with suitable examples | 1 | 2 |
| 3. Explain basic set-oriented operations (Union, Intersection, Difference, Cartesian Product) with examples | 3 | 2 |

Q-3 Attempt the Following. (Any Four) [20]

- | | | |
|---|---|---|
| 1. Compare traditional file system and DBMS in detail. | 1 | 4 |
| 2. Draw and explain an ER diagram for a college database (Student, Course, Faculty, Department). | 3 | 5 |
| 3. Discuss 1NF & 2NF using appropriate Example | 4 | 3 |
| 4. Explain various data types in MS-Access with examples. | 5 | 2 |
| 5. Compare the roles of Data Administrator and Database Administrator. Why is it important to clearly separate these roles? | 2 | 4 |

A. True

B. False

BCA SEM - III Seat No : _____

Second Internal Examination Oct : 2025

13-CAM213-2C : Operating System

[Total Marks : 40]

Time : 1.5 Hours	CO	BL
Q-1 Do As Directed.	1	1
1. What is Operating System?	2	1
2. Define Process Control Block (PCB).	3	1
3. What is Deadlock?	5	1
4. List out File attribute.	[12]	
Q-2 Attempt the Following. (Any Two)	1	2
1. Explain different types of Operating Systems.	2	2
2. Describe various Process States with neat diagram.	5	2
3. Discuss File Access Methods with examples.	[20]	
Q-3 Attempt the Following. (Any Four)	1	2
1. Explain Functions of Operating System in detail.	2	3
2. Consider the following processes with their Arrival Time (AT) and Burst Time (BT). Using FCFS Scheduling Algorithm, 1. Draw the Gantt Chart. 2. Calculate Completion Time (CT), Turnaround Time (TAT), and Waiting Time (WT) for each process. 3. Find Average TAT and Average WT.		

Process	Arrival Time	Burst Time
P1	0	4
P2	1	3
P3	2	1
P4	3	2

1. Explain Methods to handle Deadlock with example.	3	2
4. Explain Process Control Block in detail.	2	3
5. Explain Directory Structures in detail with diagram	5	3

Best of Luck

Date: 30/
Total Mar

Seat No : _____

BCA SEM - III

Mid - II Internal Examination Oct : 2025

13-AEC107-2C: Personality Development

Time : 1.5 Hours

Total Marks : 40

Q-1	Do As Directed. (Any Four)	[08]	CO	BL
1.	Define soft skill with one example.	1	1	
2.	Define hard skill with one example.	1	1	
3.	What is time management? Give one IT example.	2	1	
4.	Define teamwork skill.	2	1	
5.	What is customer service skill in IT?	2	1	
Q-2	Attempt the Following. (Any Two)	[12]		
1.	Discuss in detail the elements of soft and hard skills with suitable examples.	2	2	
2.	Explain how communication and interpersonal skills help in an IT job interview.	1	3	
3.	Discuss the role of information technology skills in MNCs.	1	2	
Q-3	Attempt the Following. (Any Four)	[20]		
1.	Compare soft skills and hard skills with examples from IT companies.	1	2	
2.	Discuss the importance of teamwork and leadership in multinational IT companies.	3	4	
3.	How can IT students use time management and stress management for success?	3	3	
4.	Explain project management and its importance in IT entrepreneurship.	3	4	
5.	Write a detailed note on basic computer skills required for IT students.	1	2	

---Best Of Luck---

Alakhnagar-Delhi was built in 10 years.
 False

Seat No : _____

BCA SEM - III

Term End Internal Examination Sept-Oct : 2024

13-IKS109-2C

Vedic mathematics

[Time : 2 Hours]

[Total Marks : 50]

Q-1	Do As Directed.	[10]	CO	BL
1.	What is the result of multiplying 23 by 22 using the Nikhilam Sutra? A) 506 B) 560 C) 516 D) 536		1	2
2.	Using Vedic Math's, what is 15% of 240? A) 30 B) 36 C) 40 D) 45		1	4
3.	Classify the square of 15 using the Vedic method? A) 225 B) 250 C) 200 D) 210		3	2
4.	Modify 804-215804 - 215804-215 using Vedic subtraction? A) 589 B) 599 C) 579 D) 569		3	2
5.	What is $543+289543 + 289543+289$ using Vedic addition? A) 832 B) 822 C) 842 D) 812		1	4
			3	2

Q-2 Attempt Following [Any Four] [12]

1.	Solve this problem :- (a) $642 - 317$	2	3
2.	Classify Mathematic Computation: $-3 + [6(11+1-4)] \div 8 \times 2$	4	4
3.	What are the three types of coordinate System?	4	2
4.	Evaluate that Squawroot's: (a) $\sqrt{3136}$ (b) $\sqrt{6241}$	2	5
5.	Identify Cube root: - (a) $\sqrt[3]{91125}$ (b) $\sqrt[3]{117649}$	2	1

Seat No : _____

: 30/10
Marks

BCA SEM - III

Internal Retest Examination Oct : 2025

13-CAM212-2C Data Structures Using OOPS

[Time : 1.5 Hours]

[Total Marks : 40]

Q-1 Do As Directed. (Any Four)	[08]	CO	BL
1. What is scope resolution operator in C++? Also write its syntax		1	1
2. Define: Class , Object		2	3
3. Define Data Structure and its types.		2	2
4. Define Constructor and Destructor with syntaxes.		3	1
5. What is full form of OOP? List out Basic concept of OOPS.		2	3
Q-2 Attempt the Following. (Any Two)	[12]		
1. Explain how classes and objects are specified and used in C++.		2	4
2. What is Constructor? Explain its types with a program example.		3	4
3. Describe Friend function with a program example.		2	3
Q-3 Attempt the Following. (Any Four)	[20]		
1. Difference between procedural programming and OOP.		1	2
2. Explain Non-linear Data Structure.		3	3
3. Difference between Constructor and Destructor.		2	3
4. Describe stack operations and their applications.		3	1
5. Discuss different types of inheritance with diagrams		2	2

4
Seat No : _____

BCA SEM - IV Internal Examination Mar-April : 2025
BCA-14-CAM216-2C: Object Oriented Programming Using Java
Time : 2 Hours Re-Test Total Marks : 50

Q-1 Do As Directed [Any Five]

[10]

	CO	BL
1 What is byte code?	4	1
2 Define following Term : [A] Abstraction [B] [D] Encapsulation	3	1
3 How to access class members?	2	1
4 List out the types of constructor.	3	1
5 List out the Java API (Built-in) packages.	5	1
6 List out the types of error.	6	1
7 When public access modifier is useful.	5	1

Q-2 Do As Directed [Any Three]

[12]

1 Implement the use of Java operators.	2	3
2 Demonstrate features of final class with proper example.	5	3
3 Explain the concept command line arguments with example.	3	4
4 Illustrate the various methods of String class with example	5	4

Q-3 Attempt the following [Any Four]

[28]

1 Write a note on structure of Java program	3	2
2 Explain the concept of interface with example.	5	2
3 How to import classes from other packages? Discuss it with proper example.	5	2
4 Illustrate the concept of multilevel inheritance with example	5	4
5 How to over load methods? Explain it with example	3	2

[Time:-2 Hours] [Total Marks: 50]

Q.1 [A] Do as Directed: (Any Four) [04]

1. Define: Data Structure.
2. List out the Primitive Data structures.
3. What is the use of strcmp() function?
4. Define: Static and Dynamic Data structures.
5. What is Non Linear data structure?

[B] Attempt Any Two. [12]

1. List out possible operation on array. Write a algorithm for inserting element.
2. What is queue? Explain any one type of queues with example
3. Discuss strcat() and strlen() and strcpy() functions with example.

Q.2 [A] Do as Directed: (Any Five) [05]

1. Define: Priority Queue.
2. Leaf Node
3. What is the Disadvantage of stack?
4. Perfect Binary Tree
5. What is Polish Notation?
6. What is Linked List?

[B] Attempt Any Two. [12]

1. What is Binary Tree? Also explain various traversal of a tree with example.
2. How to delete node from Singly Linked List explain it with example.
3. What is stack? Write algorithm of Stack operations.

Seat No : _____

BCA SEM - IV

Internal Examination MAR : 2026

14-CAM216-2C: Object Oriented Programming Using Java

Time : 1.5 Hours]

[Total Marks : 40

		[08]	CO	BL
Q-1 Do As Directed. (Any Four)				
1. Give the use of enhanced (for each) loop.			2	1
2. Define following Terms: 1. Class 2. Object			1	1
3. Define: Constructor. List out the types of constructor.			3	1
4. Which commands are used to compile and execute java programs?			2	1
5. Write the syntax for extending a super class into a subclass			4	1
Q-2 Attempt the Following. (Any Two)	[12]			
1. Explain the features of Java.			2	3
2. How to over load methods? Explain it with example			2	3
3. Explain the use of static variable and static method with proper example.			1	3
Q-3 Attempt the Following. (Any Four)	[20]			
1. Discuss the JDK and its various components.			2	2
2. Discuss Multilevel inheritance with example.			5	2
3. Illustrate the concept command line arguments with example.			3	4
4. Write a note on structure of Java program.			1	2
5. Describe the features of "this" keyword with example.			3	3

Q.3/A] Define Following Terms (Any Five)

[05]

1. Forest
2. DFS
3. Sequential File
4. Collision
5. Null Graph
6. Directed Graph
7. Sibling
8. Sorting

[B] Attempt Any Two.

[12]

1. Explain Selection Sort with proper example.
2. What is Graph? Also explain BFS with example.
3. Explain Binary Search with algorithms
4. Explain AVL tree with example.

BCA SEM - IV**Term End Internal Examination Mar-Apr : 2025****14-AEC110-2C : Digital Marketing****[Time : 2 Hours]****[Total Marks : 50]****Do As Directed.**

Q-1		[10]	CO BL	
	1. What is Digital Marketing?		2	1
	2. What is the difference between organic and paid marketing?		2	1
	3. What is Search Engine Marketing (SEM)?		2	1
	4. What does SERP stand for?		2	1
	5. What are the 4Ps of Online Marketing?		2	1

Q-2 Attempt Following. [12]

- | | | | |
|----|--|---|---|
| 1. | Explain why digital marketing is important for businesses today. | 3 | 2 |
| 2. | What are the advantages of SEO compared to SEM? | 2 | 1 |

Or

- | | | | |
|----|---|---|---|
| 1. | Difference between Traditional Marketing and Digital Marketing. | 4 | 3 |
| 2. | What is a Virtual Organization? Characteristics of Virtual Organizations. | 2 | 1 |

Q-3 Attempt Following [Any Four] [28]

- | | | | |
|----|---|---|---|
| 1. | Explain The Internet Marketing Mix (4Ps of Online Marketing)? | 3 | 2 |
| 2. | Why Email Marketing is Important? | 5 | 2 |
| 3. | Discuss Trending Digital Marketing skills? | 5 | 2 |
| 4. | Why is customer support essential in order processing? | 4 | 3 |
| 5. | How does digital marketing help businesses reach a global audience? | 4 | 3 |
| 6. | Discuss the challenges of digital marketing. | 5 | 2 |

----- All The Best -----

Seat No : _____

BCA SEM - IV

Term End Internal Examination Summer- 2026

14-CAE219-2C: Advanced JavaScript

[Time : 1.5 Hours]

[Total Marks : 40]

Do As Directed.	[8]	CO	BL
1. Define an object in JavaScript with a simple example.	1	1	
2. List Types of DOM.	2	1	
3. How to verify the Node.js installation?	3	1	
4. Mention two differences between props and state.	4	2	

Attempt Following [Any Two]	[12]		
1. What are the types of objects in JavaScript? Explain with suitable examples.	1	2	
2. Differentiate between DOM and BOM with examples.	2	4	
3. Explain the steps to set up a React JS environment in Windows.	3	3	

Attempt Following [Any Four]	[20]		
1. Define: Math Methods any 7 in JavaScript.	1	1	
2. What is JSX? Explain key features of JSX with its coding syntax.	4	2	
3. What is React? Discuss the need for React.	3	2	
4. Explain event handling in React JS with example.	4	3	
5. Explain GUI implementation in React (Textbox, Checkbox, Button).	4	3	

----- All The Best -----

Seat No : _____

BCA SEM – VI Internal Examination Mar : 2026
2CS1010603 SENSOR TECHNOLOGY-II

[Time : 1.5 Hours]

[Total Marks : 40]

Q-1	Do As Directed.	[08]	CO	BL
1.	Define Current and Voltage.		1	1
2.	State Ohm's Law with formula.		2	2
3.	Draw Motion sensor figure.		5	3
4.	Define Ultrasonic Sensor.		4	1
5.	What is Temperature and Pressure?		3	2
Q-2	Attempt Following [Any Two]	[12]		
1.	Explain Gas based Temperature and Pressure.		2	2
2.	Explain advantages and disadvantages of Ultrasonic sensor.		4	4
3.	Describe Photoelectric sensor with diagram.		3	3
4.	Write short note on Magnetic Proximity sensor.		3	2
5.	Describe history of Ultrasonic sensor.		4	1
Q-3	Attempt Following [Any Four]	[20]		
1.	Explain components of Rainfall and Motion sensor.		4	2
2.	Explain Arduino (UNO) circuit with diagram.		5	3
3.	Discuss Inductive Proximity sensor in brief.		3	2
4.	Explain Raspberry Pi circuit with figure.		5	3
5.	Discuss Motion sensor in brief.		5	4
6.	Explain solid state sensor in detail.		3	4

----- All The Best -----

BCA SEM - IV
Internal Examination Mar : 2026
14-AEC110-2C Digital Marketing

Seat No : _____

[Time : 1.5 Hours]

[Total Marks : 40]

Q-1 Do As Directed. (Any Four)

[08]

CO BL

- | | | |
|--|---|---|
| 1. What is Digital Marketing? | 1 | 1 |
| 2. What is a Search Engine? Name any two popular search engines. | 1 | 1 |
| 3. What is the Internet Marketing Mix? | 1 | 1 |
| 4. What is Social Media Marketing? | 2 | 1 |
| 5. Define Blogging and Google Ad Words | 2 | 1 |

Q-2 Attempt the Following. (Any Two)

[12]

- | | | |
|--|---|---|
| 1. Explain Organic Digital Marketing with examples. | 1 | 2 |
| 2. Explain Traditional marketing vs. Digital marketing in brief. | 1 | 2 |
| 3. Explain Google, Yahoo Search Engine in detail. | 3 | 2 |

Q-3 Attempt the Following. (Any Four)

[20]

- | | | |
|--|---|---|
| 1. Define Search Engine Marketing (SEM) and explain its role in online marketing in brief. | 3 | 2 |
| 2. Explain Social Media Marketing in brief. | 2 | 2 |
| 3. Explain the role of Website Designing and Development in Digital Marketing. | 2 | 2 |
| 4. Explain the concept of Virtual Organizations in brief. | 2 | 2 |
| 5. Explain Mobile and SMS Marketing in brief. | 2 | 2 |

BCA SEM - IV

Seat No : _____

Internal Examination Mar : 2026

14-CAM218-2C Desktop Application Development

: 1.5 Hours]

[Total Marks : 40

Do As Directed. (Any Four)

[08]

	CO	BL
Define CTS and CLS.	1	1
Write syntax for variable declaration in VB.NET / C#.	1	1
Write any four common properties of TextBox control.	2	2
Define Client-Server Process.	3	1
List any four IDE components.	1	1

Attempt the Following. (Any Two)

[12]

Explain .NET Framework components (CLR, CTS, CLS, BCL) with diagram.	1	2
Explain Basic Tools: Data Entry, Data Selection and Data Display tools with properties and events.	2	3
Explain Client-Server process Architecture with diagram .	3	4

Attempt the Following. (Any Four)

[20]

Explain all types of Operators with suitable example.	1	2
Explain TreeView and ListView with properties, methods and events.	2	3
Explain ADO.NET architecture with Data Provider, DataSet and DataAdapter.	4	4
Explain Control Statements: Decision making, Looping with example.	1	3
Write differences between ADO and ADO.NET in tabular form.	4	4

4
Seat No : _____

BCA SEM - IV Internal Examination Mar-April : 2025
BCA-14-CAM216-2C: Object Oriented Programming Using Java
Time : 2 Hours Re-Test Total Marks : 50

Q-1 Do As Directed [Any Five]

[10]

	CO	BL
1 What is byte code?	4	1
2 Define following Term : [A] Abstraction [B] [D] Encapsulation	3	1
3 How to access class members?	2	1
4 List out the types of constructor.	3	1
5 List out the Java API (Built-in) packages.	5	1
6 List out the types of error.	6	1
7 When public access modifier is useful.	5	1

Q-2 Do As Directed [Any Three]

[12]

1 Implement the use of Java operators.	2	3
2 Demonstrate features of final class with proper example.	5	3
3 Explain the concept command line arguments with example.	3	4
4 Illustrate the various methods of String class with example	5	4

Q-3 Attempt the following [Any Four]

[28]

1 Write a note on structure of Java program	3	2
2 Explain the concept of interface with example.	5	2
3 How to import classes from other packages? Discuss it with proper example.	5	2
4 Illustrate the concept of multilevel inheritance with example	5	4
5 How to over load methods? Explain it with example	3	2

BCA SEM - V
Second Internal Examination Oct : 2025
15-CAE308-3C Web .NET with C#

Seat No : _____

[Total Marks : 40]

Time : 1.5 Hours]

	[08]	CO	BL
Q-1 Do As Directed.			
1. Define ASP.Net.		1	1
2. What is CLR?		1	1
3. Define namespace.		3	1
4. What is the use of DropDownList?		5	1
Q-2 Attempt the Following. (Any Two)	[12]		
1. Explain the purpose of CLR in .NET.		1	2
2. Differentiate between Web-based and Window-based applications.		4	2
3. Explain RegularExpressionValidator with example.		6	2
Q-3 Attempt the Following. (Any Four)	[20]		
1. Explain .NET Framework Architecture with a neat diagram.		1	2
2. Discuss ASP.Net Application Life Cycle.		2	2
3. Write a program using Delegates for addition and subtraction.		3	3
4. Explain ASP.Net Standard Controls with examples.		5	2
5. Explain ADO.Net Architecture with diagram		6	2

Best of Luck

BCA SEM - V
Second Internal Examination Oct : 2025
15-CAM303-3C System Analysis and Design

Seat No : _____

Time : 1.5 Hours]

[Total Marks : 40

		[08]	CO	BL
Q-1	Do As Directed.(Any Four)			
1.	What is System? List out elements of system.		1	1
2.	Draw the general model of system.		2	3
3.	State the uses of DFD.		2	3
4.	Write use of the data dictionary.		1	2
5.	Define : Cohesion , Coupling		1	1
Q-2	Attempt the Following. (Any Two)	[14]		
1.	What is SDLC? Discuss it with all different phases.		3	4
2.	Discuss Fact finding techniques with example.		2	3
3.	Draw Context and first level of Data Flow Diagram for Inventory Management System.		4	2
4.	What are the objectives of data capture? Discuss the basic steps of data capture in detail.		2	2
Q-3	Attempt the Following. (Any Three)	[18]		
1.	What is decision tree? explain with figure.		3	3
2.	Explain Type of Systems with suitable example.		2	2
3.	Explain design of software in detail.		2	3
4.	Discuss the different types of codes with example.		3	2
5.	Discuss various roles of system analyst.		2	2

Seat No : _____

BCA SEM - V
Term End Internal Examination Winter- 2025
15-CAM302-3C: Advanced Java Programming
[Total Marks : 40]
[Time : 1.5 Hours]

Q-1 Do As Directed.

1. What is an Event Source in java.
2. Name any two event Listener interfaces.
3. What is JDBC drive?
4. Define: Servlet

[8]	CO	BL
1		1
1		1
3		1
4		1

Q-2 Attempt Following [Any Three]

1. Explain ActionEvent and MouseEvent classes with example.
2. Different between Radio Button and Check box.
3. Write short note on JDBC transection management.
4. Explain the Architecture of J2EE with a diagram.

[12]		
1		2
2		2
3		2
3		2

Q-3 Attempt Following [Any Three]

1. Explain the Event Delegation Model with diagram.
2. Describe various GUI Components. Write program to create a simple login form using GUI components.
3. Explain Database connectivity using JDBC With example program for inserting and display students records.
4. Discuss life Cycle of a Servlet with a diagram.
5. Explain any five JSP EL implicit objects with suitable example

[20]		
1		3
2		6
3		6
4		2
2		6

----- All The Best -----

Seat No : _____

BCA SEM - V

Retest- Internal Examination Oct : 2025 (WEF-2016)

1CS1010506 : SOFTWARE ENGINEERING

[Total Marks : 40]

[Time : 1.5 Hours]

Q-1 Do As Directed.

1. In Waterfall Model, which phase comes immediately after Requirement Analysis?

(A) Coding (B) System Design
(C) Testing (D) Maintenance

2. Define Software Engineering.

3. What is Regression Testing?

4. Write two myths of software engineering.

[08]

CO

BL

2

1

1

1

3

1

1

2

Q-2 Attempt the Following. (Any Two)

[12]

1. Explain the Waterfall Model with a neat diagram.

2. Explain Top-Down and Bottom-Up integration testing.

3. Expand SCM and state its purpose.

2

2

3

4

4

2

Q-3 Attempt the Following. (Any Four)

[20]

1. Explain Verification and Validation with examples.

2. Explain different Software Development Approaches with examples.

3. What is Object-Oriented Design? Explain with example.

4. Discuss in detail the Spiral Model with its advantages and disadvantages.

5. Explain various functional and structural testing techniques with examples.

4

4

1

2

3

2

2

5

3

4

Seat No : _____

BCA SEM – V

Mid-II Internal Examination OCT : 2025

15-CAM304-3C Software Project Management

Time : 1.5 Hours

Total Marks : 40

Q-1	Do As Directed.	[08]	CO	BL
1.	What is meant by Software Development Process?		3	L1
2.	What do you understand by the term "Software Life Cycle"?		3	L2
3.	Provide full form of RAD model.		3	L1
4.	How does leadership affect team performance?		4	L2
5.	What is meant by scheduling work in a project?		1	L2
Q-2	Attempt Following [Any Two]	[12]		
1.	Explain definition and software development process in detail.		3	L2
2.	Discuss Software process model: Water Fall model in detail.		3	L2
3.	Describe Schedule work and Escalation meetings in detail.		1	L2
Q-3	Attempt Following [Any Four]	[20]		
1.	Explain software reviews in detail with example.		2	L2
2.	Discuss Project requirements in brief.		1	L2
3.	Explain Prototyping model in brief with diagram.		3	L2
4.	Explain communicating in Harmony in detail with example		4	L3
5.	Explain Software Quality Assurance plan (SQAP) in detail with diagram.		3	L2

----- All The Best -----

Seat No : _____

BCA SEM - V

Second Internal Examination Oct : 2025

15-CAE305-3C Web Development Using PHP

[Time : 1.5 Hours]

[Total Marks : 40]

Q-1	Do As Directed.(Any Four)	[08]	CO	BL
1.	What is include () Function in PHP?	3	1	
2.	What is the difference between 'include()' and 'require()'?	3	1	
3.	What is a cookie?	2	1	
4.	What is the difference between GET and POST?	3	1	
5.	Who developed PHP?	4	2	
Q-2	Attempt Following (Any two)	[12]		
1.	What is Array? Explain Types of Array and Any 10 Array Function with Example.	2	4	
2.	Explain all types of HTML form elements with example?	1	2	
3.	Discuss Command with Example: INSERT, SELECT, UPDATE, DELETE	1	2	
Q-3	Attempt Following [Any Four]	[20]		
1.	What is cookie? Explain with example.	2	2	
2.	What is Looping Statements? Explain All Types of Looping Statements with Example..	2	4	
3.	Pros and Cons of Open Source?	2	4	
4.	Advantages of mysqli over mysql Example.	1	2	
5.	What is String? Explain Any 10 String Function with Example.	1	2	

----- All The Best -----

Seat No : _____

BCA SEM - VI

Internal Examination Mar : 2026

2CS1010602 : Basics of Android Framework

[Time : 1.5 Hours]

[Total Marks : 40]

Q-1	Do As Directed. [Any Four]	[08]	CO BL	
			CO	BL
Q-1	1. What is android? Which are the Features of android.		1	1
	2. List out Characteristics of Mobile Computing.		1	1
	3. Define Peer-to-Peer architecture.		1	2
	4. Different between Analog and Digital signal.		3	2
	5. Define GSM and GPRS.		2	2
Q-2	Attempt Following [Any Two]	[12]		
	1. Explain Client/Server Architecture.		2	3
	2. Discuss Wireless LAN in detail.		1	3
	3. Discuss MMS Messaging Service.		2	2
Q-3	Attempt Following [Any Four]	[20]		
	1. Discuss Architecture of Android Operating System in details.		2	1
	2. Discuss Communication Using Infrared (IR) in detail.		4	3
	3. Discuss Case Study on Educational Mobile App.		4	3
	4. Discuss Web Services in detail.		2	2
	5. Discuss Case Study on Healthcare Mobile App.		4	3

----- All The Best -----

Seat No : _____

BCA SEM - IV

Internal Examination MAR : 2026

4-CAM216-2C: Object Oriented Programming Using Java
[Total Marks : 40
: 1.5 Hours]

Do As Directed. (Any Four)	[08]	CO	BL
Give the use of enhanced (for each) loop.		2	1
Define following Terms: 1. Class 2. Object		1	1
Define: Constructor. List out the types of constructor.		3	1
Which commands are used to compile and execute java programs?		2	1
Write the syntax for extending a super class into a subclass		4	1

Attempt the Following. (Any Two)	[12]		
Explain the features of Java.		2	3
How to over load methods? Explain it with example		2	3
Explain the use of static variable and static method with proper example.		1	3

Attempt the Following. (Any Four)	[20]		
Discuss the JDK and its various components		2	2
Discuss Multilevel inheritance with example.		5	2
Illustrate the concept command line arguments with example.		3	4
Write a note on structure of Java program.		1	2
Describe the features of "this" keyword with example.		3	3

Seat No : _____

BCA SEM - IV

Internal Examination March : 2026

14-CAM217-2C : Advanced Database Management System

[Time : 1.5 Hours]

[Total Marks : 40]

Q-1 Do As Directed.

[08] CO BL

- 1) What is Sub query? with example.
- 2) List some commands of DML.
Define : Group by Clause, Order by Clause
- 3) List out types Constraints.
- 4) What is Commit and Rollback?

CO	BL
3	2
4	1
4	1
2	1
3	2

Q-2 Attempt Following.

[12]

- 1) Difference Between ADBMS vs RDBMS.
 - 2) Describe DDL Command in Brief.
- Or**
- 1) Advantage of RDBMS.
 - 2) Explain TCL and DCL Command.

CO	BL
5	4
2	2
5	2
2	3

Q-3 Attempt Following [Any Four]

[20]

- 1) What is Function? Explain Numeric function and Aggregate function in Brief.
- 2) Discuss about Character Function,
- 3) List out Join? Explain type of Join in Details.
- 4) What is Set operators? Explain any two operators.
- 5) Explain E.F.Codd's rules in Details.

CO	BL
3	3
2	3
4	3
3	2
3	1

----- All The Best -----

BCA SEM - VI**Term End Internal Examination Mar : 2025****2CS1010603 SENSOR TECHNOLOGY-II****[Total Marks : 50]****[Time : 2 Hours]**

		[10]	CO	BL
Q-1	Do As Directed.			
1.	Define Current and Voltage.	2	1	1
2.	State Ohm's Law with formula.	2	2	2
3.	Draw Motion sensor figure.	2	5	3
4.	Define Ultrasonic Sensor.	2	4	1
5.	What is Temperature and Pressure?	2	3	2
Q-2	Attempt Following [Any Three]	[12]		
1.	Explain Gas based Temperature and Pressure.	4	2	2
2.	Explain advantages and disadvantages of Ultrasonic sensor.	4	4	4
3.	Describe Photoelectric sensor with diagram.	4	3	3
4.	Write short note on Magnetic Proximity sensor.	4	3	2
5.	Describe history of Ultrasonic sensor.	4	4	1
Q-3	Attempt Following [Any Four]	[28]		
1.	Explain components of Rainfall and Motion sensor.	7	4	2
2.	Explain Arduino (UNO) circuit with diagram.	7	5	3
3.	Discuss Inductive Proximity sensor in brief.	7	3	2
4.	Explain Raspberry Pi circuit with figure.	7	5	3
5.	Discuss Motion sensor in brief.	7	5	4
6.	Explain solid state sensor in detail.	7	3	4

----- All The Best -----

BCA SEM - IV

Seat No : _____

Internal Examination Mar : 2026

14-AEC110-2C Digital Marketing

[Time : 1.5 Hours]

[Total Marks : 40]

Q-1 Do As Directed. (Any Four)

[08]

CO BL

- | | | |
|--|---|---|
| 1. What is Digital Marketing? | 1 | 1 |
| 2. What is a Search Engine? Name any two popular search engines. | 1 | 1 |
| 3. What is the Internet Marketing Mix? | 1 | 1 |
| 4. What is Social Media Marketing? | 2 | 1 |
| 5. Define Blogging and Google Ad Words | 2 | 1 |

Q-2 Attempt the Following. (Any Two)

[12]

- | | | |
|--|---|---|
| 1. Explain Organic Digital Marketing with examples. | 1 | 2 |
| 2. Explain Traditional marketing vs. Digital marketing in brief. | 1 | 2 |
| 3. Explain Google, Yahoo Search Engine in detail. | 3 | 2 |

Q-3 Attempt the Following. (Any Four)

[20]

- | | | |
|--|---|---|
| 1. Define Search Engine Marketing (SEM) and explain its role in online marketing in brief. | 3 | 2 |
| 2. Explain Social Media Marketing in brief. | 2 | 2 |
| 3. Explain the role of Website Designing and Development in Digital Marketing. | 2 | 2 |
| 4. Explain the concept of Virtual Organizations in brief. | 2 | 2 |
| 5. Explain Mobile and SMS Marketing in brief. | 2 | 2 |

Seat No : _____

BCA SEM - VI
Internal Examination Mar : 2026
1CS1010603 - Data Warehousing and Data Mining

Time : 1.5 Hours]

Do As Directed. (Any Four)

[Total Marks : 40]

[08]

CO BL

What is data warehouse?

1 1

What is data mart ?

1 1

What is meant by multidimensional database?

2 1

Define Data Mining

3 1

What is Star Schema?

2 1

Attempt the Following. (Any Two)

[12]

Explain data warehouse architecture in detail.

1 2

Explain characteristics of data warehouse in brief

1 2

Write down DBMS v/s Data warehouse?

1 2

Attempt the Following. (Any Four)

[20]

1. Explain data mining process in detail.

4 3

2. Difference between OLAP and OLTP.

2 2

3. Discuss major issues in data mining.

3 2

4. Explain top-down and bottom-up approach in Data mining.

4 3

5. Explain automatic cluster detection techniques.

4 3

BCA SEM - VI
Internal Examination March : 2026
16-CAM313-3C : E-Commerce

Seat No : _____

[Total Marks : 40]

1.5 Hours]

Do As Directed.

[08]

CO BI

- What is E-Commerce?
- What is the security environment in E-Commerce?
- What is B2C? Give an example of B2C model
- Give examples of security tools.
- What is antivirus software?

1	1
2	1
1	2
2	1
2	1

Attempt the Following. (Any Two)

[12]

- What Is E-Commerce ? Describe Its Features
- Explain technological solutions for E-Commerce security.
- Write Advantages And Disadvantages Of E-Commerce.

1	2
2	3
1	2

Attempt the Following. (Any Four)

[20]

- List different types of E-Commerce.Explain any Three.
- Explain the E-Commerce security environment.
- Discuss various security threats in the E-Commerce environment.
- What Is Traditional Commerce ?Write Difference Between Traditional Commerce And E-Commerce.

1	2
2	2
2	4
1	4
3	3

- Explain the payment process in E-Commerce with different payment methods in Details.