

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)

B.C.A. Sem-II : SUMMER : 2025

SUBJECT: DATA STRUCTURES USING C

Day : Monday
Date : 02/06/2025

S-26280-2025

Time : 02:00 PM-05:00 PM
Max. Marks 60

N.B.

- 1) Section- I Question No.1 is **COMPULSORY**. Each question carries 01 mark.
- 2) Attempt any **FIVE** questions from Section – II. Each question carries 08 marks.
- 3) Answer any **ONE** questions from Section–III. Each question carries 10 marks.
- 4) Answer to Section – I, Section – II and Section – III should be written in the **SAME** answer book.

SECTION – I

- | Q.1 | MCQ | CO | BL |
|-----|--|----|------------|
| 1) | What is the primary difference between data type and data object?
a) Data type defines operations, data object is storage
b) Both are same
c) Data object defines data type
d) None of the above | 1 | Understand |
| 2) | Which data structure is used for function call management in recursion?
a) Queue
b) Stack
c) Array
d) Tree | 2 | Apply |
| 3) | What is the time complexity of Linear Search in the worst case?
a) $O(1)$
b) $O(\log n)$
c) $O(n)$
d) $O(n \log n)$ | 1 | Understand |
| 4) | In which sorting technique is the smallest element placed at the correct position each pass?
a) Bubble Sort
b) Insertion Sort
c) Selection Sort
d) Merge Sort | 2 | Understand |
| 5) | Which function is used to read a string from a file?
a) <code>getc()</code>
b) <code>fscanf()</code>
c) <code>gets()</code>
d) <code>fread()</code> | 2 | Apply |
| 6) | What is a circular linked list?
a) A list with two ends
b) A list where last node points to first
c) A doubly linked list
d) None of the above | 3 | Evaluate |

P.T.O.

		CO 3	BL Analyze
7)	What are the three types of binary tree traversal? a) Inorder, Outorder, Postorder b) Preorder, Inorder, Postorder c) DFS, BFS, Level d) None of these	2	Apply
8)	Which file function is used to close a file in C? a) fclose() b) closefile() c) endfile() d) close()	3	Evaluate
9)	What is the purpose of getw() and putw()? a) To read/write characters b) To read/write integers c) To open files d) To print messages	1	Understand
10)	What is an advantage of using linked list over arrays? a) Fixed size b) Easy indexing c) Dynamic memory allocation d) Slower access		

SECTION – II

		CO	BL
Q.2	Define Data Type and Data Object. Give examples.	(08) CO1	Understand
Q.3	Write and explain Bubble sort algorithm with an example. State its time complexity.	(08) CO1	Understand
Q.4	Explain Singly Linked List. Write an algorithm for insertion and deletion.	(08) CO2	Apply
Q.5	Define Stack. Explain stack implementation using linked list.	(08) CO3	Analyze
Q.6	Explain the concept and terminologies of a tree data structure.	(08) CO4	Evaluate
Q.7	Write short notes on any TWO: a) Applications of Stack b) Quick Sort Algorithm c) Random Access Functions in File Handling	(08) CO3 CO1 CO4	Apply Understand Analyze

SECTION – III

		CO	BL
Q.8	Explain Binary Search with an example and analyze its time complexity.	(10) CO1	Understand
Q.9	What is Queue? Write and explain its operations using an array.	(10) CO3	Analyze

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BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)

B.C.A. Sem-II : SUMMER : 2025

SUBJECT: FINANCIAL ACCOUNTING

Day : Friday

Date : 30/05/2025

S-26281-2025

Time : 02:00 PM-05:00 PM

Max. Marks : 70

NB :

1. Answers to Section I, II and III should be written in same answer book.
2. Section -I (MCQ) all sub-questions of Q. No. 1 are COMPULSORY, write the sub-question no. and the chosen alternative (eg. 1b, 2c) in the answer book.
3. Section-I (MCQ) is of 10 marks and Section-II and onwards are of 50 marks.

SECTION - I

Q. 1 MCQs

- 1) Which accounting concept states that revenue should be recognized when it is earned? (1)
A) Matching concept
B) Realization concept
C) Consistency concept
D) Cost concept
- 2) Financial accounting is different from bookkeeping in that it: (1)
A) Deals only with cash transactions
B) Includes interpretation and summarization
C) Focuses on cost analysis
D) Ignores the trial balance
- 3) What is a compound journal entry? (1)
A) Entry for multiple assets
B) Entry involving more than two accounts
C) Entry for multiple periods
D) Entry for adjusting accounts
- 4) Journal entries are recorded in: (1)
A) Chronological order
B) Alphabetical order
C) Numerical order
D) Random order
- 5) Which book records both cash and bank transactions? (1)
A) Petty cash book
B) Purchase book
C) Three-column cash book
D) Sales return book

- (1)
- 6) What is the purpose of subsidiary books?
A) Maintain trial balance
B) Record final accounts
C) Record specific types of transactions
D) Replace ledger (1)
- 7) Outstanding expenses are:
A) Assets
B) Liabilities
C) Incomes
D) Capital (1)
- 8) Depreciation reduces:
A) Liabilities
B) Expenses
C) Assets
D) Revenues (1)
- 9) Which software is commonly used for accounting automation?
A) Excel
B) SAP
C) Tally
D) Oracle (1)
- 10) Tally allows which of the following?
A) Manual entry only
B) Posting only journal entries
C) Automatic update of multiple books
D) Only payroll management (1)

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Date : 30/05/2025

S-26281-2025

Time : 02:00 PM-05:00 PM
Max. Marks : 50

NB :

1. Figures to the right indicate FULL marks.
2. Section – III - Attempt any ONE question. Each questions carries 10 marks.
3. Section – II - Attempt any FIVE questions. Each questions carries 08 marks.
4. Use of simple non-programmable calculator is allowed.

SECTION - II

- Q. 2 What is depreciation? Elaborate the various causes of depreciation (8)
- Q. 3 Define subsidiary books. Explain the types and format of subsidiary books with examples. (8)
- Q. 4 What are accounting packages? Describe the features and advantages of using software like Tally in accounting. (8)
- Q. 5 A company purchases a machine for ₹2,40,000 on 1st July 2024. The company uses the Written Down Value method of depreciation at a rate of 25% per annum. Financial Year of the company ends on 31st March every year. (8)
1. Calculate the depreciation for each of the 4 years.
- Prepare Machinery and Depreciation Account for the 4 years
- Q. 6 From the following transactions of M/s Kumar Traders for the month of August, record the transactions in the appropriate subsidiary books (8)
1. Purchased goods on credit from Patel Suppliers ₹48,000.
2. Sold goods on credit to Sharma & Co. ₹55,000.
3. Purchased office stationery on credit from Stationery Mart ₹4,500.
4. Returned goods worth ₹6,000 to Patel Suppliers.
5. Sold goods on credit to Gupta Enterprises ₹20,000.
- Received goods returned from Sharma & Co. ₹3,000.
- Q. 7 Attempt ANY TWO of the following: (Short Answer) (4x2)
- a) Limitations of Financial Accounting
- b) Ledger - meaning and utility
- c) Petty Cash Book

SECTION - III

(10)

Q. 8

Journalise the following transactions of M/s. Krishna & Sons

Date	Particulars
1.3.2024	Business Started with ₹ 7,00,000
3.3.2024	cash deposited with Bank ₹3,00,000
6.3.2024	Purchased machinery on credit from Ranjan – ₹ 90,000
12.3.2024	Bought furniture from Ramesh for cash – ₹ 55,000
13.3.2024	Goods sold to Amar – ₹ 40,000
15.3.2024	Goods sold for cash – ₹ 80,000
17.3.2024	Bought goods for cash – ₹ 65,000
20.3.2024	Cash withdrawn from bank – ₹ 50,000 for personal use
22.3.2024	Paid Salaries by cheque ₹ 20,000
25.3.2024	Received dividend by cheque ₹ 3000

Q. 9

Prepare the Final Accounts of a Sole Proprietor. From the following Trial Balance of Mr. Ajay as on 31st March 2024, prepare Trading and Profit & Loss Account for the year ended 31st March 2024 and Balance Sheet as on that date.

(10)

Trial Balance of Mr. Ajay as on 31st March 2024

Particulars	Debit (₹)	Credit (₹)
Capital		1,20,000
Drawings	10,000	
Sales		2,50,000
Purchases	1,50,000	
Returns Inward	5,000	
Returns Outward		3,000
Wages	20,000	
Salaries	15,000	
Rent	6,000	
Insurance	2,000	
Carriage Inward	3,000	
Carriage Outward	4,000	
Debtors	35,000	
Creditors		40,000
Furniture	10,000	
Buildings	80,000	
Cash at Bank	18,000	
Motor Car	30,000	
Bank Charges	25,000	
Total	4,13,000	4,13,000

Adjustments:

1. Outstanding Rent ₹1,000
2. Prepaid Insurance ₹500
3. Depreciate Furniture by 10% and Building by 5%

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-II : SUMMER : 2025
SUBJECT: WEB DEVELOPMENT TECHNOLOGY

Day : Wednesday

Date : 28/05/2025

S-26278-2025

Time : 02:00 PM-05:00 PM

Max. Marks : 60

N.B.:

- 1) Q.1 is **COMPULSORY**.
- 2) Section – I (MCQ type) should be attempted in **SEPARATE** OMR sheet and will be collected within first 20 minutes.
- 3) Attempt any **FIVE** questions from Section. II. Each questions carries 08 marks.
- 4) Attempt any **ONE** question from Section. III. Each questions carries 10 marks.
- 5) Figures to the right indicate **FULL** marks.
- 6) Answers to Section II and Section III should be written in **SAME** answer book.

SECTION – I

Q.1 MCQ's Questions:

- 1) A program that connects you to a website
 - a) ☐ Notepad ++
 - b) ☐ Dreamweaver
 - c) ☐ Browser
 - d) ☐ Search engine
- 2) The data storage space accessed via the internet, usually used to host websites and data files is called _____.
 - a) ☐ Web space
 - b) ☐ Web site
 - c) ☐ Web server
 - d) ☐ Web master
- 3) Which of the following is a common feature of "website layout settings"?
 - a) ☐ Configuring the homepage header images
 - b) ☐ Defining the overall structure of the website
 - c) ☐ Setting up user login credential
 - d) ☐ Adding footer links and widgets
- 4) Which of the following is typically set in the "site configuration" section of a website?
 - a) ☐ Button shape and size
 - b) ☐ Site name and logo
 - c) ☐ Background Colour of the footer
 - d) ☐ Foreground of the header text

P.T.O.

- 5) What security measures is important for accessing the admin panel of a website?
- a) ☐ Using simple password
 - b) ☐ Publicly displaying the admin panel URL
 - c) ☐ Enabling two-factor authorization (2FA)
 - d) ☐ Allowing unlimited login attempts
- 6) Which user role would typically have access to admin panel?
- a) ☐ A website visitor
 - b) ☐ A website admin or manager
 - c) ☐ A casual content contributors
 - d) ☐ A website designer
- 7) Which of the following is a common features of a WordPress theme?
- a) ☐ Adding new users to the website
 - b) ☐ Customizing the appearance and layout of posts, pages and other content
 - c) ☐ Managing database backups
 - d) ☐ Handling email notifications
- 8) How can you edit the content of a WordPress?
- a) ☐ By opening the post file in the server's file managers
 - b) ☐ By using the WordPress block editor or the classic editor
 - c) ☐ By modifying the theme's CSS file
 - d) ☐ By installing a plugin to edit posts
- 9) When installing a paid plugin in WordPress, which of the following is typically required?
- a) ☐ Installing the plugin directly through the WordPress repository
 - b) ☐ Uploading the plugin ZIP file via the WordPress admin panel after purchasing it
 - c) ☐ Manually writing the plugin code
 - d) ☐ Installing the plugin through the WordPress theme customization panel
- 10) What is the purpose of the WooCommerce plugin in WordPress?
- a) ☐ To improve SEO optimization
 - b) ☐ To add E-commerce functionality, allowing you to sell products online
 - c) ☐ To create custom user profiles and manages roles
 - d) ☐ To speed up website loading times

SECTION – II

- Q.2 Describe the purpose of previewing and editing both posts and pages within the Word Press Editor. [08]
- Q.3 Explain the purpose of a site icon (favicon) and its significance in Web browsing. [08]
- Q.4 Compare and Contrast various methods of data import/export in website management. [08]
- Q.5 Outline the steps involved in installing Word Press on a Web Server. Explain the role of MYSQL in the functioning of WordPress. [08]
- Q.6 Analyze the advantages and challenges of importing and exporting website data between different platforms or instances. Provide Examples. [08]
- Q.7 Write short note on ANY TWO of the following [08]
- a) Content Creation and Presentation
 - b) Benefits and Limitations of VPS hosting
 - c) Role of SSL in securing online communication

SECTION – III

- Q.8 Explain the concept of Page hierarchy in Word Press. [10]
- Q.9 Explain the significance of choosing appropriate foreground and background colors for a website. [10]

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B.C.A. Sem-II : SUMMER : 2025
SUBJECT: WEB DEVELOPMENT TECHNOLOGY

Day : Wednesday
Date : 28/05/2025

S-26278-2025

Time : 02:00 PM-05:00 PM
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BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
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Day : Wednesday
Date : 28/05/2025

S-26278-2025

Time : 02:00 PM-05:00 PM
Max. Marks : 100

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BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-II : SUMMER : 2025
SUBJECT: DBMS-I

Day : Monday
Date : 26/05/2025

S-26279-2025

Time : 02:00 PM-05:00 PM
Max. Marks : **60**

N.B.

- 1) All Sub. - Questions of Q.No.1 is **COMPULSORY**.
- 2) Section - I (MCQ type) write the Sub Question No. and the chosen alternative (eg. Ib, iic) in the answer book.
- 3) Attempt any **FIVE** questions from Section - II. Each question carries **08** marks.
- 4) Attempt any **ONE** question from Section - III. Each question carries **10** marks.
- 5) Figures to the right indicate **FULL** marks.
- 6) Answers to Section I, II & III should be written in **SAME** answer book.

SECTION - I

Q.1 Multiple Choice Questions: (M.C.Q.)

(10)

1. DML stands for
 - a) Database monitoring Language
 - b) Data Monitoring Language
 - c) Data Manipulation Language
 - d) Database Management Language
2. Which of the following command is used to create a table in SQL?
 - a) MAKE
 - b) CREATE
 - c) INSERT
 - d) DEVELOP
3. Which of the following components is not a part of Entity Relationship Diagrams?
 - a) Double lines
 - b) Hexagons
 - c) Double rectangle
 - d) Ellipse
4. In _____ Normal form a composite attribute is converted to individual attributes.
 - a) First
 - b) Second
 - c) Third
 - d) Fourth
5. Which of the following is not an integrity constraint?
 - a) Not null
 - b) Positive
 - c) Unique
 - d) Check
6. Which SQL clause is used to sort the result set in SQL?
 - a) Order by
 - b) Having
 - c) Where
 - d) Group by
7. _____ allows to uniquely identify a tuple?
 - a) Schema
 - b) Attributes
 - c) Supper key
 - d) Domain
8. A transaction completes its execution is said to be
 - a) Saved
 - b) Committed
 - c) loaded
 - d) rolled
9. How many levels of abstraction in DBMS are there?
 - a) 2
 - b) 3
 - c) 4
 - d) 5
10. DA stands for
 - a) Data Administrator
 - b) Database active
 - c) Define application
 - d) Data advisor

SECTION – II

(08)

- Q.2 Describe 3 tier architecture of DBMS in detail. (08)
- Q.3 What is recovery? Explain various types of failures that may occur in a database environment. (08)
- Q.4 Define transaction. Explain various states of transaction in detail (08)
- Q.5 What is mapping cardinalities? Explain it with real time examples. (08)
- Q.6 Define the following terms with suitable example (08)
i) primary key ii) foreign key iii) simple key iv) composite key
- Q.7 Write Short Notes on ANY TWO of the following : (08)
a) Checkpoint
b) Data Independence
c) Time stamp based protocol

SECTION – III

- Q.8 Explain following terms: (10)
i) Functional dependency ii) Decomposition.
- Q.9 Consider following table and write SQL queries on it : (10)
employ (empid, ename, deptno, deptnm, desig, sal)
i) Display employees of 'Purchase' department
ii) Display employees whose salary > 50000