

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)

B.C.A. Sem-I : SUMMER : 2026

SUBJECT: ORGANIZATION OF IT BUSINESS

Day : Wednesday

Date : 03/06/2026

S-25954-2026

Time : 02:00 PM-05:00 PM

Max. Marks : 60

N.B.

1. Section –I Question No. 1(10 marks) is **COMPULSORY**. Section-I (MCQ Type), should be attempted in **SEPARATE** OMR sheet and will be collected within the first 20 Minutes
2. Attempt **ANY FIVE** questions from Section – II, each question carries 08 marks.
3. Attempt **ANY ONE** questions from Section III, each question carries 10 marks.
4. Answers to Sections II & III should be written in **SAME** answer book.
5. Figures to the right indicate FULL marks.

SECTION – I

Q.1 Multiple Choice Questions: (M.C.Q.) (10)

1. Which of the following best defines business?
 - a) A social activity
 - b) An economic activity
 - c) A political activity
 - d) A leisure activity
2. Which revolution is known to have triggered to the beginning of modern industry?
 - a) Technological revolution
 - b) Green revolution
 - c) Industrial revolution
 - d) French revolution
3. Which of the following is NOT a feature of sole proprietorship?
 - a) Unlimited liability
 - b) Shared decision-making
 - c) Full control by owner
 - d) Easy formation
4. A company legally comes into existence on which of the following stages?
 - a) Promotion
 - b) Incorporation
 - c) Capital subscription
 - d) Commencement of Business
5. Which document defines the objectives and powers of a company?
 - a) Memorandum of Association
 - b) Articles of Association
 - c) Partnership deed
 - d) prospectus
6. IT has had a significant impact on which of the following industries?
 - a) Agriculture
 - b) Airlines
 - c) Mining
 - d) Handicrafts
7. Which of the following is NOT a form business ownership?
 - a) Sole proprietorship
 - b) Partnership
 - c) Co – operative society
 - d) Branch office
8. Which of the following is a key factor in sustaining a competitive edge through IT?
 - a) Unlimited resources
 - b) Protecting IT Innovation
 - c) Outsourcing operations
 - d) Expanding geographically
9. The use of IT in business strategy mainly helps in :
 - a) Reducing operational costs
 - b) Creating a monopoly
 - c) Enhancing employee satisfaction
 - d) Building a competitive advantage
10. Which of the following is a strategic framework used for IT in business?
 - a) SWOT analysis
 - b) Value chain analysis
 - c) Porter's Five Forces
 - d) PEST analysis

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SECTION – II

- Q.2 Explain the concept of business as an economic activity and discuss its various objectives. (08)
- Q.3 Discuss the features, merits and demerits of sole proprietorship. (08)
- Q.4 Discuss the impact of the industrial revolution on the evolution of modern business. (08)
- Q.5 List and explain various stages in formation and incorporation of a company. (08)
- Q.6 With suitable examples explain the impact of information technology on business environment. (08)
- Q.7 Write Short Notes on **ANY TWO** of the following : (08)
- a) Co-operative organization
 - b) Memorandum of Association (MOA)
 - c) Strategic role of IT in Business

SECTION – III

- Q.8 Imagine you are starting a business with a partner. What factors will you consider before forming a partnership, and how will these impact the success of your business? (10)
- Q.9 A medium –sized manufacturing company wants to use IT to streamline its supply chain. Explain how IT can improve efficiency and reduce costs in their operations. (10)

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BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-I : SUMMER : 2026
SUBJECT: DISCRETE MATHEMATICS

Day : Monday
Date : 01/06/2026

S-25955-2026

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

N.B.:

- 1) Section – I Q.No.1 is **COMPULSORY** based on MCQ. Each question carries 01 mark.
- 2) Attempt **ANY FIVE** questions from Section – II.
- 3) Attempt **ANY ONE** question from Section – III.
- 4) Use of non-programmable **CALCULATOR** is allowed.
- 5) Answers to both the section should be written in the **SAME** answer book.

SECTION – I

Q.1

M.C.Q

[10]
CO1 BL5

- 1) Empty set is a _____.
a) Infinite set b) Finite set c) Unknown set d) Universal set
CO1 BL5
- 2) What is the cardinality of the set of odd positive integers less than 10?
a) 10 b) 5 c) 3 d) 20
CO2 BL6
- 3) The function (gof) is _____, if the function f and g are onto function?
a) Into function b) one to one function
c) onto function d) one-to-many function
CO1 BL6
- 4) A _____ is an ordered collection of objects.
a) Relation b) Function c) Set d) Proposition
CO2 BL6
- 5) _____ refers to the opposite of what was originally stated?
a) Negation b) Conjunction
c) Disjunction d) Implication
CO1 BL5
- 6) Transpose of a row matrix is
a) zero matrix b) diagonal matrix
c) column matrix d) row matrix
CO2 BL6
- 7) Matrices obtained by changing rows and columns is called
a) rectangular matrix b) transpose
c) symmetric d) row matrix
CO1 BL6
- 8) What will be the probability of getting odd numbers if a dice is thrown?
a) $1/2$ b) 2 c) $4/2$ d) $5/2$
CO2 BL3
- 9) How many different ways can a team of 4 people be established from a total of 9 people so that two specific people are included in each team.
a) 11 b) 21 c) 22 d) 31
CO1 BL2
- 10) How many 5-digit numbers can be formed with the digits 1 to 8 with no repetition allowed?
a) 20 b) 19 c) 12 d) 56
CO2 BL3

P.T.O.

SECTION – II

- Q.2** Let $U = \{1, 2, 3, 4, \dots, 9\}$ [08] CO2 BL3
 $P = \{1, 2, 4, 6, 9\}$, $Q = \{3, 4, 5, 7, 8\}$, $R = \{6, 7, 8, 9\}$
Find : a) $P \cap (Q \cup R)$ b) $R \cup (P \cap Q)$
- Q.3** What is Logic? Prepare truth table for [08] CO3 BL2
 $(\sim p \rightarrow \sim q) \vee (p \vee q)$
- Q.4** What is a Function? Explain types of functions. [08] CO1 BL5
- Q.5** Given, $A = \begin{bmatrix} 4 & 7 & 2 \\ 3 & 1 & 2 \\ 3 & 3 & 3 \end{bmatrix}$ $B = \begin{bmatrix} 5 & 1 & 2 \\ 2 & 1 & 3 \\ 1 & 2 & 4 \end{bmatrix}$ [08] CO3 BL3
Find : a) $A + B$ b) $A - B$ c) A^T d) B^T
- Q.6** Find the number of words that can be formed with the letter of [08] CO2 BL2
the word 'MADAM'.
- Q.7** Write short notes on ANY TWO of the following: [08] CO2 BL5
a) Cardinality of a set
b) Logic gates
c) Conditional probability

SECTION – III

- Q.8** Five cards are drawn from a pack. What is the probability of the [10] CO3 BL3
cards?
a) being 4 Ace b) being 4 Queens
- Q.9** Find the inverse of the matrix by adjoint method. [10] CO3 BL3
 $A = \begin{bmatrix} 1 & 3 & -2 \\ -3 & 0 & -5 \\ 2 & 5 & 0 \end{bmatrix}$

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-I : SUMMER : 2026
SUBJECT: C PROGRAMMING

Day : Tuesday
Date : 26/05/2026

S-25953-2026

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

N.B.:

- 1) Q. No. 1 is **COMPULSORY**.
- 2) Section -I (MCQ Type), should be attempted in **SEPARATE** OMR sheet and will be collected within the **first 20** minutes.
- 3) Attempt **ANY FIVE** questions from Section -II. Each question carries **08** marks.
- 4) Attempt **ANY ONE** questions from Section -III. Each question 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

- i) Which of the following statement is not true?
 - a) A pointer to an int and a pointer to a double are of the same size.
 - b) A pointer must point to a data item on the heap (free store).
 - c) A pointer can be reassigned to point to another data item.
 - d) A pointer can point to an array.
- ii) What are strings in C programming?
 - a) Individual variables
 - b) Group of function
 - c) Group of character type variables in array form
 - d) All of the above
- iii) What is the output of this statement "print("%d", (a++))"?
 - a) The value of (a+1)
 - b) The current value of a
 - c) Error message
 - d) Garbage
- iv) How many times will the following loop execute?
for(j =1; j <=10; j = j-1)
 - a) Forever
 - b) Never
 - c) 0
 - d) 1

- v) Directives are translated by the
- Pre-processor
 - Compiler
 - Linker
 - Editor
- vi) Which of the following is true in the case of C programming?
- The function is a variable.
 - Parenthesis isn't needed at all in C programming.
 - There is no need for closing parenthesis in C programming
 - Float is a variable
- vii) Which header file used gets ()?
- Studio.h
 - Stdlib.h
 - Conio.h
 - All of the above
- viii) Study the following array definition.
- ```
int num [10] = {3 3 3};
```
- Which of the following statement is correct?
- num [9] is the last element of the array num.
  - The value of num [8] is 3
  - The value of num [3] is 3
  - None of the above
- ix) What does this statement mean:  $x = -y + 1$ ;
- $x = x - y + 1$
  - $x = -x - y - 1$
  - $x = x + y - 1$
  - $x = x - y - 1$
- x) Which of the following can be member of function?
- Function
  - Another structure
  - Enumeration
  - All of the above

....3....

## SECTION-II

- Q.2** Write an algorithm and design a flowchart to check given number is prime or not. (08)
- Q.3** What is function? Explain different classification of user defined functions based on parameter passing and return type. (08)
- Q.4** Explain the different types of looping statement used in C with its syntax. (08)
- Q.5** Explain different categories of pre-processor directives used in C. (08)
- Q.6** Explain the structure of C program with example. (08)
- Q.7** Write short notes on:
- a) Built in operators
  - b) Structure
  - c) String

## SECTION-III

- Q.8** Write a C Program to Access Array Elements Using Pointer. (10)
- Q.9** Write a C Program to find the Frequency of Characters in a String. (10)

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)  
B.C.A. Sem-I : SUMMER : 2026  
SUBJECT: FUNDAMENTALS OF INFORMATION TECHNOLOGY

Day : Friday  
Date : 29/05/2026

S-25952-2026

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

**N. B. :**

- 1) Q. No. 1 is **COMPULSORY**.
- 2) Section – I (MCQ Type), should be attempted in **SEPARATE** OMR sheet and will be collected within the first **20** Minutes.
- 3) Attempt **ANY FIVE** questions from Section **II**. Each question carries **08** marks.
- 4) Attempt **ANY ONE** questions from Section **III**. Each question 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**

**(10)**

- i) Which of the following is a characteristic of third generation computers?
  - a) Use of vacuum tubes
  - b) Use of transistors
  - c) Use of integrated circuits
  - d) Use of microprocessors
- ii) Which computer combines features of both analog and digital computers?
  - a) Digital Computer
  - b) Analog Computer
  - c) Hybrid Computer
  - d) None of the above
- iii) Which of the following is an example of an input device that uses light to read data?
  - a) Mouse
  - b) Barcode Scanner
  - c) Keyboard
  - d) printer
- iv) What types of input device is commonly used to process exam answer sheets?
  - a) Scanner
  - b) OMR
  - c) MICR
  - d) Keyboard

- v) Which memory is permanently programmed during manufacturing?
- a) RAM
  - b) ROM
  - c) PROM
  - d) EPROM
- vi) Which of the following is a secondary storage device?
- a) RAM
  - b) Hard Disk
  - c) CPU Register
  - d) Cache Memory
- vii) Which type of software is designed for end-users?
- a) System Software
  - b) Application Software
  - c) Utility Programs
  - d) Firmware
- viii) Machine language consists of \_\_\_\_\_
- a) English – like instructions
  - b) Binary code
  - c) Symbols and mnemonics
  - d) High – level instructions
- ix) MS Excel, which feature is used to arrange data in ascending or descending order?
- a) Filtering
  - b) Sorting
  - c) Formatting
  - d) Grouping
- x) How can you view the document before printing it in MS Word?
- a) Print Setup
  - b) Page Layout
  - c) Print Preview
  - d) Print Wizard

## SECTION – II

- Q. 2      What is computer? Explain types of computer. (08)
- Q. 3      What is primary memory? Describe the types of primary memory in detail. (08)
- Q. 4      What is a programming language? Explain its types in detail. (08)
- Q. 5      Explain various mode of data communication with example. (08)
- Q. 6      What is Input device? Explain in detail any two input devices of a computer system. (08)
- Q. 7      Write short notes on **ANY TWO** of the following: (08)
- a) Printer
  - b) System Software
  - c) Applications of Computer

## SECTION – III

- Q. 8      MS Excel plays an important role in organization. Justify with proper example. (10)
- Q. 9      Write down the steps to prepare Power Point presentation of Hotel advertisement (10)