

**BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)**  
**B.C.A. Sem-I :SUMMER : 2023**  
**SUBJECT : FUNDAMENTALS OF INFORMATION TECHNOLOGY**

Day : Wednesday

Time : 02:00 PM-05:00 PM

Date : 3/5/2023

**S-25952-2023**

Max. Marks : 100

**N.B. :**

- 1) Attempt **ANY FIVE** questions from **Section – I** each questions carries **12** marks.
- 2) Attempt **ANY TWO** questions from **Section – II** each questions carries **20** marks.

**SECTION-I**

- Q.1** What is output device? Explain in detail any two output devices of computer system. (12)
- Q.2** Define computer? Explain in detail various applications of computer. (12)
- Q.3** What is software? Explain in detail system software with proper example. (12)
- Q.4** What is secondary memory? Explain various secondary storage devices in computer system. (12)
- Q.5** Explain in detail high level language with its advantages and disadvantages. (12)
- Q.6** What is Network topology? Explain in detail various types of topologies with its advantages and disadvantages. (12)
- Q.7** Write a short notes on **ANY TWO** of the following: (12)
- a) Limitations of computer
  - b) Keyboard
  - c) Generations of computer

**SECTION-II**

- Q.8** Explain with example importance of Excel in financial department of any organization. (20)
- Q.9** Global English Medium School (GEMS) is one of the leading School. GEMS wants to advertise their school. Explain the various steps of advertisement using power point presentation. (20)
- Q.10** What is Mail Merge? Explain in detail various steps used in mail merge with proper example. (20)

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**BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)**  
**B.C.A. Sem-I :SUMMER : 2023**  
**SUBJECT : C PROGRAMMING**

Day : Saturday

Time : 02:00 PM-05:00 PM

Date : 6/5/2023

**S-25953-2023**

Max. Marks : 100

**N.B:**

- 1) Attempt any **FIVE** questions form Section-I. Each question carries 12 marks.
- 2) Attempt any **TWO** questions form section –II. Each questions carries 20 marks.

**Section-I**

- Q.1** Explain built in I/O functions used in C. (12)
- Q.2** Explain in detail features of programming language and structure of a C program. (12)
- Q.3** What is pointer? Explain declaration and initialization of pointer. (12)
- Q.4** Explain the operators used in C. (12)
- Q.5** What is array? Explain the types of array in C. (12)
- Q.6** Write **Short Notes** on ANY TWO: (12)
- a) Union
  - b) Structure
  - c) Algorithm

**Section-II**

- Q.7** a) Write a C program to swap two numbers without using third variable. (10)
- b) Write a C program to find sum of natural numbers using recursion. (10)
- Q.8** a) Write a C program to print prime numbers between 1 to 100. (10)
- b) Write a C program to add two matrices using two dimensional array. (10)
- Q.9** a) Write a C program to find the frequency of character in a given string. (10)
- b) Write a C program to generate multiplication table of given number. (10)

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**BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)**

**B.C.A. Sem-I :SUMMER : 2023**

**SUBJECT : ORGANIZATION OF IT BUSINESS**

Day : Tuesday

Time : 02:00 PM-05:00 PM

Date : 9/5/2023

**S-25954-2023**

Max. Marks : 100

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**N.B.**

- 1) Attempt **ANY FOUR** questions from Section – I.
  - 2) Attempt **ANY TWO** questions from Section – II.
  - 3) Figures to the **RIGHT** indicate **FULL** marks.
  - 4) Answers to both the sections should be written in **SAME** answer book.
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**SECTION – I**

- Q.1** Explain the concept of business. Why does business need multiple objectives? (15)  
Explain any five such objectives.
- Q.2** What is corporate strategy? Explain in detail a framework for the strategic use of IT. (15)
- Q.3** What is Joint Hindu Family Business? Explain with proper example its advantages and disadvantages. (15)
- Q.4** Explain the concept of industry. Explain in detail Industrialization in India. (15)
- Q.5** What is Article of Association? Explain its role in business with proper example. (15)
- Q.6** With suitable example, Explain the impact of information technology on the business environment. (15)
- Q.7** Write short notes on **ANY THREE** of the following : (15)
- a) External Trade
  - b) Value Chain
  - c) Public Enterprises
  - d) Prospectus

**SECTION – II**

- Q.8** The proprietor of a retail store wishes to open a branch in other locality of a big city, would you advise him to take a partner or employ a manager to run the branch. Justify your answer. (20)
- Q.9** List and explain various stages involved in Formation of a Company. (20)
- Q.10** Explain with example, how we can create and sustain a competitive edge in business environment. (20)

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SECTION – II

Q.8 Given, (20)

$$A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}, \quad B = \begin{bmatrix} 2 & 3 & 1 \\ 4 & 7 & 2 \\ 1 & 2 & 3 \end{bmatrix}, \quad C = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 2 & 4 \\ 3 & 4 & 5 \end{bmatrix}$$

Find Matrix X, such that  $3A - 2B + 5X = 4C$ .

Q.9 Find the number of distinct permutations that can be formed from all the letters of each word. (20)

- a) ENGLISH
- b) RADAR

Q.10 Explain the following: (20)

- a) Conditional Probability
- b) Logic Gates

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