

Shri RGP Gujarati Professional Institute, Indore

Class: BCA I Year

Subject: CFA

Assignment Questions

Q.1 What is a Number System? Explain different Number System Conversion with the help of examples.

Q.2 What is Binary code? Explain different types of binary code.

Q.3 What is Boolean Algebra? Explain.

Q.4 Explain Binary Arithmetic with the help of examples.

Important Information for Assignment Submission:

1. Maximum Marks: 20 marks for each assignment.
2. Submission Deadline: On or before 15thOctober 2025.
3. Format: Assignments must be hand written on A4 size pages.
4. FrontPage: All students must use the prescribed front page format for their assignments.
5. Submission Time: Assignments must be submitted in person between 12:00p.m.and 2:00p.m before the last date.
6. Students are instructed not to use plastic folders while submitting the assignment

Front page format for Assignment:

College Name	SRGPGPI, Indore
Class	BCA I Year
Subject	
Faculty's Name	
Class Serial Number	
Student Name	

SHRI R.G.P. GUJARATI PROFESSIONAL INSTITUTE

BCA-1st yr : Programming Methodology

Assignment – 1

- Q.1 What do you mean by Algorithm and Flowchart? Explain with suitable example.
- Q.2 Explain data types and operators available in C++? Write a program to print largest number among three numbers by using Ternary Operator.
- Q.3 Explain Control flow statements. Write a program to print entered vowel using switch statement.
- Q.4 What is function? Write difference Between Call by Value and Call by Reference.

Important Instructions for Assignment Submission

- **Maximum Marks:** Each assignment carries a total of 20 marks. All questions are of equal weightage.
- **Submission Deadline:** Assignments must be submitted on or before **15th October 2025**.
- **Submission Time:** Between **12:00 PM and 2:00 PM**.
- **Format Requirement:** Assignments must be **handwritten** on **A4 size pages**.
- **Front Page:** All students are required to use the **prescribed front page format** for their assignments.

Assignment Front page format

Name of Institute	
Class	
Subject	
Student Name	
Roll No	
Submission Date	
Faculty's Name	

SRGP Gujarati Professional Institute

BCA Ist Year

DATA STRUCTURE

Assignment: 1 (Theory)

Q.1 a) What is Data Structure? Differentiate between primitive and non-primitive Data Structure.

b) Explain various operations of Data structure?

Q.2a) What is array? What are different type of arrays? How it is declared and initialized?

b) Write a algorithm for one dimensional Array :

i) Insertion and deletion operation.

ii) Traversing of Array

iii) Merging of 2 arrays

c) Write algorithm for 2 dimensional Array:

i) to read and display

ii) Addition of 2 Matrix

iii) Multiplication of 2 matrix

d) Differentiate between row major and column major array index notation. How is index calculated in both.

Q.3 Explain Sparse Matrix with its types. write algorithm for Sparce matrix.

Q.4 What is function? Differentiate between call by value and call by reference.

Q.5 a) What is pointers? What is advantages and disadvantages of pointer.

b) Explain various types of Pointers.

c) Write algorithm for implementation of array using pointers,

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 5. Submission Time: Assignments must be submitted in person between 12:00p.m. and 2:00p.m before the last date.
 6. Students are instructed not to use plastic folders while submitting the assignment
- Front page format for Assignment:

College Name	SRGPGPI, Indore
Class	BBA III Year
Subject	
Faculty's Name	
Class Serial Number	
Student Name	

Assignment Notice-BCA I Year

Computational Mathematics

Note: Solve all the questions compulsorily and submit on 15th October. Each question carries equal marks.

Q.1. Construct a 3×4 matrix, whose elements are given by $a_{ij} = \frac{1}{2}|-3i + j|$

Q.2. If $A = \begin{bmatrix} 8 & 0 \\ 4 & -2 \\ 3 & 6 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & -2 \\ 4 & 2 \\ -5 & 1 \end{bmatrix}$, then find the matrix X, such that $2A + 3X = 5B$.

Q.3 Explain all the properties of Determinants.

Q.4 Discuss the types of the Matrix with example.

Q.5 Matrix plays an important role in various fields of operations. Write the applications of matrix to solved problem related to industries business economics and real world problem.

Note: Handwriting and Paper: The entire assignment must be self-handwritten on A4-size pages.

Binding: Do NOT use a plastic folder, spiral binding, or any elaborate cover. The pages must be secured simply by taping over the staples (or using strong tape along the edge) to ensure pages are firmly held together.

Front Page Structure: The first page of your assignment must be formally structured and contain the following details only:

College Name:	SRGP Gujarati Professional Institute
Class:	BCA I year
Faculty's Name:	Dr. Praveen Verma
Student Name:	_____
Assignment Submission Date:	15/10/2025

SRGPGPI
Class: BCA Ist Year
Subject: Operating System(Minor-II)
Assignment

Note: Attempt all questions.

1. Write about the following:
 1. Linux and growth of LINUX
 2. BOSS operating system
 3. Aryabhatt Linux
2. What is the concepts of Open source softwares(OSS)? What are the features of OSS? Give examples?
3. Write about the IT field Contributions of Rajen Sheth and Sunder Pichai?
4. Write about Operating system components and services?
5. Explain these OS types: Multiprocessor OS, Time Sharing OS, Multiprogramming OS, RTOS and Distributed OS?
6. Perform OS activities is given as follows:
 1. Aryabhatt Linux coding Sprint
 2. Open Source Innovation Hackathon
 3. OS Evolution Timeline

Information about Assignment Front Page

College Name	SRGPGPI with logo
Class	BCA I st Year
Subject	Operating System
Faculty's Name	Dr. Shweta Jain
Student Name	
Roll No./ Class s. No.	
Assignment Submission Date and time	15/10/2025 12.00 -02.00 P.M.

Shri RGP Gujarati Professional Institute, Indore

Class-BBA/B.COM/BCA

Subject-English Language and Indian Culture

Answer the following questions . (any four)

1. Write a short note on the central idea of the poem “Where the mind is without fear” and the poet’s “Heaven of freedom”.
2. According to Gandhi ji what is the greatest tragedy of existing education system. Explain
3. Write a note on the spiritual influence of India on the west?
4. Critically analyse the divine character of Hanuman in valmiki’s Sundarkanda.
5. Highlight the key points of Vivekanand’s Chicago speech.

Important Information for Assignment Submission:

1. **Maximum Marks:**20 marks for each assignment.
2. **Submission Deadline:** On or before 15thOctober 2025.
3. **Format:** Assignments must be hand written on A4 size pages.
4. **FrontPage:** All students must use the prescribed front-page format for their assignments.
5. **Submission Time:** Assignments must be submitted in person between 12: 00p.m.and 2:00p.m before the last date.
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Front page format for Assignment:

College Name	
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Shri RGP Gujarati Professional Institute Indore
Class: BBA, BCA & B.Com I Year
Subject: - Environmental Science

Assignment questions:-

1. What is global warming? explain its cause and effects.
2. How does ozone layer depletion affect life on earth?
3. Describe the impact of e-waste on the environment and suggest control strategies.
4. Explain observation and measurement of meteorological parameter in ancient India like rain, Wind, cloud and lightning.

Important Information for Assignment Submission:

- 1. Maximum Marks:** 20 marks for each assignment.
- 2. Questions:** A minimum of four questions should be given for each subject. 3. Submission Deadline:
On or before 15th October 2025.
- 4. Format:** Assignments must be handwritten on A4 size pages.
- 5. Front Page:** All students must use the prescribed front page format for their assignments.
- 6. Submission Time:** Assignments must be submitted in person between 12:00 p.m. and 2:00 p.m. to the concerned faculty before the last date.

Assignment Front Page Format:

College Name	
Class	
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Faculty's Name	
Roll No.	
Student Name	
Assignment Submission date	