

SHRI RGP GUJARATI PROFESSIONAL INSTITUTE, INDORE

CLASS : BCA I YEAR

SUBJECT : COMPUTER ARCHITECTURE

ASSIGNMENT QUESTIONS:

Q1. Explain in detail the binary concept given in Chandahsastra and describe how it is used in Modern Computer system.

Q2. Explain the similarities and differences between the Ancient Indian knowledge System and Modern computer science.

Q3. Explain real world problem solving approaches inspired by Computational model of the PARAM supercomputer.

Q4. Write short notes on the Contribution of the following in technology.

a) Dr Vinod Dham

b) Dr Vinod Khosla

c) Dr Ajay Bhatt

d) Dr Vijay P Bhatkar

Q5. Explain Panini Sanskrit Grammar in detail?

PROF. ZAHIRA NOOR QURAISHI

SUBJECT INCHARGE

SHRI RGP GUJARATI PROFESSIONAL INSTITUTE, INDORE

CLASS : BCA I YEAR

SUBJECT : Programming Methodology

Q.1 Explain Aryabhata's Algorithm.

Q.2 Explain the 5 Features & 5 applications of C++.

Q.3 Explain the types of operators in C++.

Q.4 Explain the looping statements in C++.

Q.5 Explain the stages in program development.

Prof. Shweta Goswami

SUBJECT INCHARGE

SRGP Gujarati Professional Institute

BCA Ist Year 2026

DATA STRUCTURE

Assignment: 1 (Theory)

1. Explain the term IKS(Indian Knowledge System)?
2. Write about the resemblance of efficient searching and so techniques/classification with ancient Indian method Ayurveda and Sanskrit texts?
3. Write short note on:
 - a) Bhaskara I
 - b) Bhaskara II
 - c) the buddhist numerical sorting method
4. What is Data Structure and Explain its different types?
5. a) What is array? What are different type of arrays? How it is declared and initialized?
 - b) Write algorithm for one dimensional Array :
 - i) Insertion and deletion operation.
 - ii) Traversing of Array
 - iii) Searching
 - c). Explain Sparse Matrix and Its Types with Memory Representation with array.

Dr. Neelima Choukse

SUBJECT INCHARGE

Mathematical Foundation To Computer Science

ASSIGNMENT / QUESTION PAPER

Name: _____ Class/Semester: _____

Roll No.: _____ Date: _____

Instructions

1. Answer all five questions.
2. Write detailed and well-organized answers with suitable examples wherever necessary.
3. Keep the answers neat, clear, and properly numbered.
4. Use graph paper for diagrammatic representation.

Q.1. Define matrices and explain of its types with example. Also give five application of matrices to solve real world problems and activities.

Q.2. Using following table draw 'less than' and 'more than' ogive and determine the values of the median and two quartiles.

Class:	0-7	7-14	14-21	21-28	28-35	35-42	42-49	49-56
Frequency:	1	4	8	14	17	13	10	7

Q.3. Calculate mean, median and mode form the following data:

Marks less than:	10	20	30	40	50	60	70	80
No. of Students:	15	35	60	84	96	127	198	250

Q.4. (a) Find area of triangle by determinant method whose coordinates is

A (1,2), B (4,6), C (5,2)

(b) Simplify $\begin{vmatrix} a & b & c \\ b & c & a \\ c & a & b \end{vmatrix}$.

Q.5. What is the concept of measure of central tendency? What are its objectives and functions? Explain the properties of a good average.

Dr. Praveen Verma

SUBJECT INCHARGE

BCA I Year

Web Designing-ASSIGNMENT

1. What is the World Wide Web (WWW)? Explain its relationship with the Internet.
2. Differentiate between Static and Dynamic websites with suitable examples.
3. Define HTML and CSS, explaining their specific roles in building the structure and style of a webpage with example.
4. What is web hosting? Explain any two types of hosting (Shared, VPS, Cloud, Localhost).
5. What is the difference between HTTP and HTTPS **protocols**?

Prof. Geetam Vadalila

SUBJECT INCHARGE

Shri RGP Gujarati Professional Institute

BCA- I Year

ASSIGNMENT

Understanding India (VAC)

Answer all five questions. Each question carries 10 marks, and the answer to each question should be written in approximately 500-700 words. All questions are compulsory.

1. Describe in detail the main characteristics of the Indus, Vedic, and Classical periods.
2. Explain the Indian concept of co-existence and plurality, highlighting how it enriches Indian society.
3. Provide a comprehensive analysis of various cultural symbols of India: Religion, Architecture, Music, Drama, and Ethos.
4. Critically analyze Fundamental Rights and Duties enshrined in the Indian Constitution from the perspective of 'Dharma-Kartavya-Ethics'.
5. Evaluate the role of education in nation-building and in fostering responsible citizenship among youth.

Dr. Chandra Panchal

SUBJECT INCHARGE

BCA 1 year

ASSIGNMENT QUESTIONS

Sub -Hindi

नोट : सभी प्रश्न अनिवार्य हैं

प्रश्न 1 महर्षि पाणिनि का हिंदी व्याकरण से क्या सम्बन्ध था?

प्रश्न 2 मात्र भूमि कविता का अर्थ अपने शब्दों में लिखिए?

प्रश्न 3 भारत वंदना कविता के रचयिता कौन हैं? कविता का मुख्य भाव क्या है?

प्रश्न 4 शतरंज के खिलाड़ी कहानी का उद्देश्य अपने शब्दों में लिखिए?

प्रश्न 5 चार दिन के अवकाश हेतु एक प्रार्थना पत्र लिखिए?

Prof. Aruna Saraph

SUBJECT INCHARGE

SHRI RGP GUJARATI PROFESSIONAL INSTITUTE

BCA/B Com FIRST YEAR (2026-2027)

ENGLISH LANGUAGE AND CULTURE

ASSIGNMENT QUESTIONS

Answer the following questions .

1. What is the central idea of "Where the Mind is Without Fear"?
2. Discuss the theme of religious tolerance in Viveka-nanda's Chicago speeches, with special reference to the "Response To Welcome" and the final session.
3. Explain the different reading techniques with special reference to skimming and scanning.
4. Explain how to identify the main idea or theme of a passage.
5. Why are inference and conclusion important in reading comprehension ?

Prof. Yashasvi Borasi

SUBJECT INCHARGE

ENVIRONMENTAL SCIENCE
ASSIGNMENT / QUESTION PAPER

Name: _____ **Class/Semester:** _____

Roll No.: _____ **Date:** _____

Instructions

- 1. Answer all five questions.**
- 2. Write detailed and well-organized answers with suitable examples wherever necessary.**
- 3. Keep the answers neat, clear, and properly numbered.**

Q.1. Describe air pollution, its causes, harmful effects, and prevention in detail.

Q.2. Describe soil pollution, its causes, harmful effects, and prevention in detail.

Q.3. How does Kautilya's Arthashastra present the Indian holistic view of the environment? Explain in detail the concepts of nature management and conservation through administrative structure, the principle of punishment, and economic management.

Q.4. Explain how nature is depicted as a holistic entity in the Puranas, and describe the three major cultural and social impacts of this concept.

Q.5. What is the role of environmental science in our modern life and future?

Dr. Sunil Khatri

SUBJECT INCHARGE