

BCA - ASSIGNMENT-I

BCA 1st Semester

Course: DIP- 111 Professional Communications

Instructions:

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

- Q. 1 (a) Define 'sentence'. Write the types of sentences along with examples and each type should contain minimum 10 sentences.
- (b) Define verb. Describe the types of verb along with auxiliary and modal verbs. Write minimum 10 sentences using different modal verbs.
- Q. 2 (a) Verbal Communication is very necessary for a professional. Explain both types of verbal communication. What are the steps of oral and written communication?
- (b) Point out the steps that are necessary for improving your hierarchical communication. Explain them with the help of different ways.

Course: BCA-111 Discrete Mathematics

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

Q.1

- (a) Write the isomorphism of group with example.
- (b) Group A and Group B are isomorphic if and only if for some ordering of their vertices and Their adjacency matrix is equal.

Q.2

- (a) Define complete graph with example K_6 .
- (b) Write truth table for $p \wedge q \wedge r$, where p, q, r are any proposition.

Course: BCA-112 C Programming

Due date of submission: 10-Nov-2016

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

Q-1

- (a) Write the advantages and disadvantages of c programming.
- (b) Make the table of data type with its ranges.

Q-2

- (a) Make the table of memory units.
- (b) Explain the history of C in details.

Course: BCA-113 Basics of Computer Applications

Submission Date: 10 November 2016

Instructions:

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your name, Programme and enrollment number clearly at the top of the Pages

Q.1

- a) What do you mean by programming languages? Write Types of Programming Languages in brief.
- b) Define Primary & Secondary Memory.

Q.2

- a) Explain the Block Diagram of Computer in brief.
- b) Define Symbols of Flowchart in brief.

Course: BCA-114 Mathematics-I

Due date of submission: 10.11.2016

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

Q.1

- a) Solve the following equations by matrix method:

$$\begin{aligned}x + 2y + 3z &= 1 \\2x + 3y + 2z &= 2 \\3x + 3y + 4z &= 1\end{aligned}$$

- b) Find the rank of A by transforming it in Echelon form using Elementary method.

$$A = \begin{bmatrix} 1 & 2 & 2 \\ 3 & 6 & 6 \\ 2 & 4 & 4 \end{bmatrix}$$

Q.2

- a) Find the inverse matrix of the matrix $A = \begin{bmatrix} 6 & 4 \\ 2 & 4 \end{bmatrix}$ using Cayley-Hamilton Theorem.

- b) Find the characteristic equation and Eigen values of the matrix.

$$A = \begin{bmatrix} -2 & 2 & 1 \\ 2 & 1 & 2 \\ 1 & 2 & 6 \end{bmatrix}$$