

BCA 2nd Year

PAPER-1 : OOPs WITH C++. (MARKS : 100)

- i. Introduction to OOPs.
- ii. Elements of C++
- iii. Control Structure of C++
- iv. Array and Function in C++
- v. Structure and Enumerated data types
- vi. Class and Objects
- vii. Constructor and Destructor
- viii. Inheritance
- ix. Operator overloading
- x. Pointers
- xi. Runtime Polymorphism
- xii. Stream and Files

PAPER-2 : DBMS, RDBMS & SQL(MARKS: 100)

- i. Overview of Database Management System
- ii. Traditional models
- iii. Functional dependencies and Normalization, multivalued dependencies
- iv. Introduction to SQL
- v. Database design
- vi. Issue of Physical design

PAPER-3 : DATA COMMUNICATION AND NETWORKING(MARKS: 100)

a. DATA COMMUNICATION AND NETWORKING (marks :50)

- i. Computer and Communication
- ii. Communication media
- iii. Modem and Modulation
- iv. Networking of Computers

b. NETWORKING OPERATING SYSTEM (marks :50)

- i. Introduction to Networking Operating System
- ii. Characteristic features of Windows NT server
- iii. Anatomy & Components of NT server
- iv. Networking & Security

PAPER-4 : WEB TECHNOLOGY (marks :100)

- a. Internet Basics
- b. HTML : Introduction, Adding images, Forms & Tables, Hyperlinks, Frames
- c. DHTML : Introduction, Style Sheets and Scripts
- d. JAVA Script Basics

PAPER-5 : VISUAL BASIC (Marks: 100)

- i. Introduction to VB
- ii. Windows, tools and common windows control
- iii. Element of user interface
- iv. A few common properties & Methods
- v. Using VB as language
- vi. Events
- vii. Procedures and Functions
- viii. Menus and dialog boxes
- ix. MDI forms, File I/O
- x. Managing Database
- xi. Introduction to COM (Component Object Models)

PAPER-6 : COMPUTER ORGANIZATION AND SSAD (MARKS: 100)

a. Computer Organization & Architecture

- i. Combinational and Sequential Circuits
- ii. Memory Organization
 - iii. Instruction Format, Addressing Methods
 - iv. IO system interrupts

b. Structured System Analysis and Design (SSAD)

- i. Introduction to SSAD
- ii. System Development Life Cycle
- iii. Principles of successful system development
- iv. DFA/data dictionary decision table / pseudocode
- v. Normalization
- vi. Elements of Design
- vii. Design of files, design of input
- viii. System implementation & maintenance

PAPER-7 : LAB – I (Marks: 100)

PAPER-8 : LAB – II (Marks: 100)

PAPER- 9 : PROJECT (Marks : 100)

* Second Year Total Marks : 900