B Com	Semester: I(Computer Applications)	Credits: 4
Course: 1C	INFORMATION TECHNOLOGY	Hrs/Wk: 5

UNIT I:

Introduction: Computer Definition - Characteristics and Limitations of Computer Hardware— Generations of Computer, Classification of Computers, Applications of Computer, Basic Components of PC, Computer Architecture - Primary and Secondary Memories- Input and Output Devices- Operating System- Function of Operating System- Types of Operating System- Languages and its Types.

UNIT II:

MS word: Word Processing – Features-Advantages and Applications- Parts of Word Window- Toolbar- Creating, Saving, Closing, Opening and Editing of a Document-Moving and Coping a Text-Formatting of Text and Paragraph- Bullets and Numbering-Find and Replace - Insertion of objects-Headers and Footers- Page Formatting- Auto Correct- Spelling and Grammar- Mail Merge- Macros.

UNIT III:

MS Excel:

Features – Spread Sheet-Workbook – Cell-Parts of a window-Saving, Closing, Opening of a Work Book – Editing – Advantages – Formulas- Types of Function- Templates – Macros – Sorting- Charts – Filtering – Consolidation – Grouping- Pivot Table.

UNIT IV:

MS Power point: Introduction – Starting – Parts-Creating of Tables- Create Presentation – Templates- Auto Content Wizard-Slide Show-Editing of Presentation-Inserting Objects and charts.

UNIT V:

MS Access: Orientation to Microsoft Access - Create a Simple Access Database - Working with Table Data - Modify Table Data - Sort and Filter Records - Querying a Database - Create Basic Queries - Sort and Filter Data in a Query - Perform Calculations in a Query - Create Basic Access Forms - Work with Data on Access Forms - Create a Report - Add Controls to a Report - Format Reports.

MODEL QUESTION COURSE – THEORY

B.Com. DEGREE EXAMINATIONS

Semester: I(Computer Applications)
Course(1C):Information Technology
Time:3hours. Max Marks: 75

Section-A

Answer any **FIVE** of the following questions. **5X5=25M**

1. What are the Applications of Computer?
2. Write about the parts of Word-Window.
3. What are the features of MS-Excel?
4. What are the features of MS-Power Point?
5. What are the basic queries in MS-Access?
6. What are the Basic Components of PC?
7. Write Types of Functions in MS-Excel.
8. What are the types of effects in Custom Animation?

Section-B

Answer **FIVE** questions. **5X10=50M**

9. a) Explain about Computer Architecture.

(OR)

b) Explain about functions of Operating System and types of Operating Systems.

10. a) What are the Features, Advantages and Applications MS-Word

(OR)

b) Write the process how to prepare Progress Report of Students using Mail Merge.

11. a) How to Prepare Students Results Table with Total, Percentage and Pass/Fail using Formulas.

(OR)

b) Write the process for Sorting, Filtering, Consolidation and Grouping in MS-Excell.

12. a) Write the process of how to prepare a power point presentation and slideshow.

(OR)

b) Write about different types of animations in MS-Power Point.

13. a) Write the process how to Create a Report, Add Controls to a Report and Format Reports in MS Access.

(OR)

b) Write the process how to create a Simple Access Database, Working with Table Data and Modify Table Data.

B Com	Semester: II(Computer Applications)	Credits: 4
Course: 2C	E-COMMERCE AND WEB DESIGNING	Hrs/Wk: 5

UNIT I:

Introduction: Meaning, Nature, Concepts, Advantages, Disadvantages and reasons for Transacting Online, Types of E-Commerce, e-commerce Business Models (Introduction , Key Elements of a Business Model And Categorizing Major E-Commerce Business Models), Forces Behind e-commerce.

Technology used in E-commerce: The dynamics of World Wide Web and Internet (Meaning, EvolutionAnd Features); Designing, Building and Launching e-commerce website (A systematic approach involving decisions regarding selection of hardware, software, outsourcing Vs. in-house development of a website).

UNIT II:

E-payment System: Models and methods of e–payments (Debit Card, Credit Card, Smart Cards, e-money), Digital Signatures (Procedure, Working And Legal Position), Payment Gateways, Online Banking (Meaning, Concepts, Importance, Electronic Fund Transfer, Automated Clearing House, Automated Ledger Posting), Risks Involved in e-payments.

UNIT III:

On-line Business Transactions: Meaning, Purpose, Advantages and Disadvantages of Transacting Online, E- Commerce Applications in Various Industries Like {Banking, Insurance, Payment of Utility Bills, Online Marketing, E-Tailing (Popularity, Benefits, Problems and Features), Online Services

(Financial, Travel and Career), Auctions, Online Portal, Online Learning, Publishing and Entertainment} Online Shopping (Amazon, Snap Deal, Alibaba, Flipkart, etc.).

UNIT IV:

Website designing: Designing a home page, HTML document, Anchor tag Hyperlinks, Head and body section, Header Section, Title, Prologue, Links, Colorful Pages, Comment, Body Section, Heading Horizontal Ruler, Paragraph, Tabs, Images And Pictures, Lists and Their Types, Nested Lists, Table Handling. **Frames:** Frameset Definition, Frame Definition, Nested Framesets, Forms and Form Elements. DHTML and Style Sheets: Defining Styles, elements of Styles, linking a style sheet to a HTML Document, Inline Styles, External Style Sheets, Internal Style Sheets & Multiple Style Sheets.

UNIT V:

Security and Encryption: Need and Concepts, E-Commerce Security Environment: (Dimension, Definition and Scope Of E-Security), Security Threats in The E-Commerce Environment (Security Intrusions And Breaches, Attacking Methods Like Hacking, Sniffing, Cyber- Vandalism Etc.), Technology Solutions (Encryption, Security Channels Of Communication, Protecting Networks And Protecting Servers And Clients).

MODEL QUESTION COURSE – THEORY
B.Com. DEGREE EXAMINATIONS
Semester: II(Computer Applications)
Course(2C): E-Commerce And Web Designing

Time: 3 Hours. Max Marks: 75

Section-A

Answer any **FIVE** of the following questions. **5X5=25M**

1. Write about Types of E-Commerce.
2. What are the Risks Involved in e-payments?
3. What are the Advantages and Disadvantages of Transacting Online?
4. Write examples for Lists and their types.
5. Write the Definition and Scope of E-Security.
6. What are the features of WWW and Internet?
7. Write how to link a style sheet to a HTML Document.
8. What are the methods of e-Payments?

Section-B

Answer **FIVE** questions. **5X10=50M**

9. a) Write about e-commerce Business Models.

(OR)

b) Explain about Designing, Building and Launching e-commerce website.

10. a) Explain about Digital Signatures.

(OR)

b) Explain about Online Banking.

11. a) Write about E-Tailing (Popularity, Benefits, Problems and Features).

(OR)

b) Write about Online Learning, Publishing and Entertainment.

12. a) Write the code to design a web page with Form and form elements

(OR)

b) Write about Inline, External, Internal and Multiple Style Sheets.

13. a) Write about Security Threats in the E-Commerce Environment.

(OR)

b) Write about Technology Solutions for Security.

B Com	Semester: III(Computer Applications)	Credits: 4
Course: 3C	PROGRAMMING WITH C &C++	Hrs/Wk: 5

UNIT I:

Introduction and Control Structures: History of 'C' - Structure of C program – C character set, Tokens, Constants, Variables, Keywords, Identifiers – C data types - C operators - Standard I/O in C - Applying if and Switch Statements.

UNIT II:

Loops And Arrays: Use of While, Do While and For Loops - Use of Break and Continue Statements - Array Notation and Representation - Manipulating Array Elements - Using Multi Dimensional Arrays.

UNIT III:

Strings and Functions: Declaration and Initialization of String Variables - String Handling Functions - Defining Functions - Function Call - Call By Value, Call By Reference – Recursion.

UNIT IV:

Principles of Object Oriented Programming: Procedure Oriented Programming, Object Oriented Programming, Basic concepts of Object Oriented Programming, Applications of C++, A simple C++ Program, An example with Class, Structure of C++ Program, Creating source file, Compiling and Linking.

UNIT V:

Classes and Objects: Tokens, Keywords, Declaration of Variables, Dynamic initialization of variables, Specifying a Class, Defining member functions, Function overloading, Operator overloading, Constructors and Destructors, Inheritance and types of Inheritance.

MODEL QUESTION COURSE – THEORY
B.Com. DEGREE EXAMINATIONS
Semester: III(Computer Applications)
Course(3C): Programming With C&C++

Time: 3 Hours. Max Marks: 75

Section-A

Answer any **FIVE** of the following questions. **5X5=25M**

1. Write the Structure of C program
2. Write about Break and Continue Statement.
3. What is recursion? Write an example program for recursion.
4. Write the Structure of C++ Program.
5. What is Inheritance? What are the types of Inheritance?
6. Write the Tokens and Constants in C Language.
7. Write Declaration and Initialization of String.
8. Write about operator overloading.

Section-B

Answer **FIVE** questions. **5X10=50M**

9. a) Write about Data Types and Operators in C Language.
   (OR)
   b) Write about If and Switch Statement with examples.

10. a) Write about types of Loops in C Language with Flow Charts and example syntax.
    (OR)
    b) Write about Array Declaration and Initialization and write a C program for Addition of two arrays.

11. a) Write about different types of String handling functions
    (OR)
    b) Explain Call by Value and Call by Reference with examples.

12. a) Explain about basic concepts of OOP.
    (OR)
    b) Write about Creating source file, Compiling and Linking.

13. a) Explain about types of Constructors.
    (OR)
    b) Explain about different types of Inheritances.

B Com	Semester: IV(Computer Applications)	Credits: 4
Course: 4F	DATA BASE MANAGEMENT SYSTEMS	Hrs/Wk: 5

UNIT I:

Overview of Database Management System: Introduction, Data and Information, Database, Database Management System, Objectives of DBMS, Evolution of Database Management System, Classification of Database Management System.

UNIT II:

File-Based System: File Based System. Drawbacks of File-Based System, DBMS Approach, Advantage of DBMS, Data Models, Components of Database System, Database Architecture,DBMS Vendors and their products.

UNIT III:

Entity-Relationship Model: Introduction, The Building Blocks of an Entity-Relationship, Classification of Entity Set, Attribute Classification, Relationship Degree, Relationship Classification, Generalization and Specialization, Aggregation and Composition, CODD's Rules, Relational Data Model, Concept of Relational Integrity.

UNIT IV:

Structured Query Language: Introduction, History of SQL Standards, Commands in SQL, Data types in SQL, Data Definition Language (DDL),Selection Operation Projection Operation, Aggregate Functions, Data Manipulation Language, Table Modification, Table Truncation, Imposition of Constraints, Set Operations.

UN IT V:

PL/SQL: Introduction, Structure of PL/SQL,PL/SQL Language Elements, Data Types, Control Structure, Steps to Create a PL/SQL Program, Iterative Control Cursors, Steps to Create a Cursor, Procedure, Functions, Packages, Exceptions Handling, Database Triggers, Types of triggers.