# **CCM1 - WEB DESIGN**

# **UNIT I**

Introduction to the Internet : Computers in Business – Networking – Internet – Email – Resource Sharing – Gopher – WWW – Usenet – Telnet – Bulletin Board Service – Wide Area Information Service

#### **UNIT II**

Introduction to HTML: Designing a home page – HTML document – Anchor tag

#### **UNIT III**

Hyperlinks – Head and Body sections – Header section – Title – Prologue – links – colorful pages – comments – body section – heading

#### **UNIT IV**

Horizontal ruler – paragraph – tabs – Images and pictures – lists and their types – nested lists – table handling

# Unit V

Frames – frameset definition – frame definition – nested framesets. Forms and form elements

#### Техт Воок

"World Wide Web Design with HTML", C.Xavier, TMH, 2000.

UNIT I: Chapter 1 UNIT II: Chapter 4 UNIT III: Chapter 5 UNIT IV: Chapter 6, 7, 8 UNIT V: Chapter 10, 11, 12

# REFERENCE BOOK

Programming the World Wide Web - Robert W. Sebesta Fourth Edition Pearson

	Part – A all the Questions ( 2 = 20 Marks	Part – B Internal Choice Type 5 X 5 = 25 Marks	Part – C Answer any 3 Questions 3 X 10 = 30 Marks
Question 1,2	2 – 1 Unit	11a (or) 11b – 1 Unit	16 – I Unit
3	3,4 – II Unit	12a (or) 12b – II Unit	17 – II Unit
5	5,6 – III Unit	13a (or) 13b – III Unit	18 – III Unit
7	7,8 – IV Unit	14a (or) 14b – IV Unit	19 – IV Unit
9	,10 – V Unit	15a (or) 15b – V Unit	20 – V Unit

Subject Code:

# **CCM2P - WEB DESIGN LAB**

- 1. Font, Size, Width and Alignment
- 2. Text, Marquee, Heading and Paragraph
- 3. Tab Setting
- 4. Images and Border
- 5. Ordered and Unordered List.
- 6. Table

# **CCA1 - DIGITAL COMPUTER FUNDAMENTALS**

#### Unit I

Number Systems: Decimal - Binary - Octal - Hexadecimal - Conversion From One Another - Binary Addition - Subtraction - Multiplication And Division - Codes - BCD Weighted-Excess - Gray - Error Detection Codes

# **UNIT II**

Basic Logic Gates – Boolean Algebra: Laws and Theorems – The Universal Building Blocks - Sum of Products - Product of Sums – Karnaugh Map Simplification

# UNIT III

Combinational Logic Circuits: Adder – Half and Full Adder - Subtractor - Multiplexers – Demultiplexers – Decoders – Encoders

### **UNIT IV**

Flip – Flops: RS - Clocked RS – D Flip – Flop – JK Flip – Flop – T Flip – Flop – Edge Triggered - - Master/Slave Flip – Flop

#### UNIT V

Counters and Registers: Counters - Ripple Counter - Ring Counter - Registers - Shift Registers

#### TEXT BOOK

"Principles Digital Electronics" - K. Meena, PHI.

UNIT I: Chapter 1

UNIT II: Chapter 2(2.1 - 2.7, 2.9), 3(3.1, 3.3, 3.5 - 3.9, 3.13, 3.14)

UNIT III: Chapter 4(4.1 – 4.5, 4.7 – 4.10)

UNIT IV: Chapter 5(5.1 – 5.8) UNIT V: Chapter 6(6.1 – 6.3, 6.8)

# REFERENCE BOOK

"Digital Computers Fundamentals", Bartee, Tata McGraw Hill, 1996.

Part – A	Part – B	Part – C
Answer all the Questions	Internal Choice Type	Answer any 3 Questions
10 X 2 = 20 Marks	5 X 5 = 25 Marks	3 X 10 = 30 Marks
Question 1,2 – 1 Unit	11a (or) 11b – 1 Unit	16 – I Unit
3,4 – II Unit	12a (or) 12b – II Unit	17 – II Unit
5,6 – III Unit	13a (or) 13b – III Unit	18 – III Unit
7,8 – IV Unit	14a (or) 14b – IV Unit	19 – IV Unit
9,10 – V Unit	15a (or) 15b – V Unit	20 – V Unit

#### **EVS - ENVIRONMENTAL STUDIES**

#### Unit I

- a) Nature Of Environment And Environmental Studies
- b) Definition. Scope And Importance; Need For Public Awareness
- c) Renewable And Non-Renewable Resources And Their Management
- d) A Preliminary Knowledge on the Following Resources: Forest, Water, Mineral, Food and Energy.

#### Unit II

- a) Concept Of An Eco System, Structure Of An Eco System, Producers, Consumers And Decomposers
- b) Energy Flow in the Eco System, Food Chains, Food Webs and Ecological Pyramids.

#### UNIT III

- a) Bio-Diversity And Its Conservation Introduction Definition Genetic –
   Species And Ecosystem Diversity
- Bio-Geographical Classification of India. Value Of Bio-Diversity:
   Consumptive Use Productive Use Social Ethical Aesthetic And Option Values
- c) Threats To Bio-Diversity: Habitat Loss Poaching Of Wild Life Man, Wild Life Conflicts
- d) Endangered And Endemic Species Of India, Conservation Of Bio-Diversity

# Unit IV

- a) Environmental Pollution Definition, Causes, Effects Control Measures Of Air Pollution, Water Pollution And Soil Pollution, Marine Pollution, Noise Pollution, Thermal And Nuclear Pollution
- b) Soil Wastage Management: Causes, Effects And Control Measures Of Urban And Industrial Wastes.

#### Unit V

- a) Social Issues and Problems from Unsustainable To Sustainable Development, Urban Problems Related To Energy Conservation.
- b) Population Growth, Variation Among Nations
- c) Population Explosion Family Welfare Programme
- d) Environment and Human Health, Human Rights, Value Education, HIV/Aids, Women Child Welfare.

Question Pattern

Answer any 5 out of 8 Questions

5 X 15 = 75 Marks

# SBEC1 - MULTIMEDIA AND ITS APPLICATIONS

# Unit I

Introduction to Multimedia – CDROM and the Multimedia Highway – Use of Multimedia – Introduction to Making Multimedia – Multimedia Skills

#### Unit II

Multimedia Hardware – Macintosh and Windows Production Platforms - Hardware Peripherals – Connections - Memory and Storage Devices

# **UNIT III**

Multimedia Software – Media Software Basic Tools - Making Instant Multimedia - Multimedia Software and Authoring Tools

#### **UNIT IV**

Multimedia Building Blocks - Text - Sound

#### UNIT V

Images - Animation and Video

#### TEXT BOOK

Tay Vaughan – "Multimedia Making It Work" Fifth Edition- Tata Mcgraw Hill Edition 2001.

UNIT I: Chapter 1 UNIT II: Chapter 2 UNIT III: Chapter 3

UNIT IV: Chapter 4(9, 10)
UNIT V: Chapter 4(11, 12, 13)

# REFERENCE BOOK

"Multimedia Technology and Applications" - David Hillman

Part – A Answer all the Questions 10 X 2 = 20 Marks	Part – B Internal Choice Type 5 X 5 = 25 Marks	Part – C Answer any 3 Questions 3 X 10 = 30 Marks
Question 1,2 – 1 Unit 3,4 – II Unit 5,6 – III Unit 7,8 – IV Unit 9,10 – V Unit	11a (or) 11b – 1 Unit 12a (or) 12b – II Unit 13a (or) 13b – III Unit 14a (or) 14b – IV Unit 15a (or) 15b – V Unit	16 – I Unit 17 – II Unit 18 – III Unit 19 – IV Unit 20 – V Unit

# CCM3 - PROGRAMMING IN C++

#### Unit I

Principles of Object Oriented Programming –Application of C++ - Structure of C++ - Token, Expression and Control Structure

#### **UNIT II**

Functions in C++ - Inline Function - Function Overloading - Friend and Virtual Functions - Classes And Objects

### UNIT III

Constructors and Destructors – Parameterized Constructors – Multiple Constructors in a Class – Constructors with Default Arguments – Operator Overloading and Type Conversions - Defining Operating Overloading - Overloading Unary Operators – Overloading Binary Operators

# Unit IV

Inheritance: Introduction – Defining Derived Classes – Single Inheritance – Making a Private Member Inheritable – Multilevel Inheritance – Multiple Inheritance – Hierarchical Inheritance – Hybrid Inheritance – Exception Handling

# Unit V

Managing Console I/O Operations – C++ Stream Classes – Unformatted I/O operations – Formatted I/O operations – Basic File Handling

#### **TEXT BOOK**

Object Oriented Programming With C++ By E. Balagurusamy – 2nd Edition Tata McGraw Hill

UNIT I: Chapter 1, 2, 3 UNIT II: Chapter 4, 5 UNIT III: Chapter 6, 7 UNIT IV: Chapter 8 UNIT V: Chapter 10, 11

# REFERENCE BOOKS

Herbert Schildt, "Teach Yourself C++", Third edition, Tata Mcgraw Hill, 2000.

Part – A	Part – B	Part – C
Answer all the Questions	Internal Choice Type	Answer any 3 Questions
10 X 2 = 20 Marks	5 X 5 = 25 Marks	3 X 10 = 30 Marks
Question 1,2 – 1 Unit	11a (or) 11b – 1 Unit	16 – I Unit
3,4 – II Unit	12a (or) 12b – II Unit	17 – II Unit
5,6 – III Unit	13a (or) 13b – III Unit	18 – III Unit
7,8 – IV Unit	14a (or) 14b – IV Unit	19 – IV Unit
9,10 – V Unit	15a (or) 15b – V Unit	20 – V Unit

Subject Code:

# **CCM4P - PROGRAMMING IN C++ LAB**

- 1. Class And Objects
- 2. Constructors And Destructors
- 3. Operator Overloading
- 4. Function Overloading
- 5. Inheritance
- 6. Exception Handling
- 7. File Handling

# **CCA2 - OPERATION RESEARCH**

# Unit I

Introduction To O.R. – Elementary Treatment Of L.P.P- Methodology Of Or – Mathematical Formation Of The Problem – Graphical And Solution Method – Un Balanced Graphical And Solution - Slack And Surplus Variables-Matrix Formulation Of L.P.P-Simplex Algorithm – Simplex Method

#### Unit II

Application Of Transportation Problem- North West Corner – Least Cost Method – Vogel's Approximation Method - Transportation Algorithm - Moving Towards Optimality

# **UNIT III**

Assignment Problem - Impossible Assignment Problem - Unbalanced Assignment Problem - The Assignment Algorithm

#### **UNIT IV**

Network Scheduling: CPM – Introduction – Network and Basic Components – Rules for Network Construction – Time Calculation in Network - Critical Path Method

#### UNIT V

PERT: Introduction - PERT - PERT Calculation - Float and Negative Slack - Advantages of Network: PERT and CPM

# Техт Воок

Operations Research by Kantiswarup, P.K. Gupta And Manmohan.

UNIT I: Chapter 1(1.1 - 1.9), 2(2.1 - 2.3, 2.5, 2.6), 3(3.1 - 3.5)

UNIT II: Chapter 6(6.1 - 6.9)

UNIT III: Chapter 7(7.1 - 7.4)

UNIT IV: Chapter 21(21.1 - 21.5)

UNIT V: Chapter 21(21.6 - 21.9)

### REFERENCE BOOK

Operations Research by P. Mariapan

Part – A	Part – B	Part – C
Answer all the Questions	Internal Choice Type	Answer any 3 Questions
10 X 2 = 20 Marks	5 X 5 = 25 Marks	3 X 10 = 30 Marks
Question 1,2 – 1 Unit	11a (or) 11b – 1 Unit	16 – I Unit
3,4 – II Unit	12a (or) 12b – II Unit	17 – II Unit
5,6 – III Unit	13a (or) 13b – III Unit	18 – III Unit
7,8 – IV Unit	14a (or) 14b – IV Unit	19 – IV Unit
9,10 – V Unit	15a (or) 15b – V Unit	20 – V Unit

# **VE - VALUE EDUCATION**

#### Unit I

Meaning and Nature of Value Education: Meaning And Concepts of Education: Meaning and Concepts of Value Education – Origin – Nature – Classification of Value – View of Eminent Thinkers – Meaning Of Value Education – Need for Value Education

#### **UNIT II**

Objectives and Development of Human Value: Role of School and College in the Development of Human Values – Objectives of Value Oriented Education. Ethical and Social Values – Gandhiji's Non Violence – Gokak Committee

# **UNIT III**

Strategies And Approaches To Value Education: Role of Education School , Family, Teacher For The Personal Value Development – Conceptional Frame Work – Strategy Suggested By J R Frankel – Ncert Approach To Value Education – Role Play Technique In Value Education – Value Based Curriculum – Teachers Role

#### **UNIT IV**

Sources Of Values : Sources Of Values – Traditional Indian Values, Sources Of Values – Culture, Education, Religion – Hinduism, Christianism, Islam, Buddhism – Indian Constitutions As Source For Democratic Values – Equality – Secularism, Democracy – Research And Resources In Value Education

#### Unit V

Methods of Teaching and Documents on Human Value Education: Methods of Teaching Value Education – Guidelines for Developing Value among Students. Problems on Promoting Value Education – Documents of Value Education – Recommendation of the Committee Appointed By the Central Advisory Board of Education – Recommendation of the University Education Commission 1964 –1966 - National Policy on Education 1986-1992

#### **TEXT BOOKS**

- 1. J C Aggarwal , Education For Values Environment And Human Rights , Shipra Publications , New Delhi 2005.
- 2. Dube S.C Modernization and Development, the Search for an Alternative Paradigm, Zee Books Ltd. London: 1988.
- 3. Mansell R and When U, Knowledge Societies: Information Technology For Sustainable Development, Oxford University Press, New York.
- 4. World Bank Knowledge for Development World Development Report, Oxford Unit Press, New York.

# **Question Pattern**

# **CCM5 - PROGRAMMING IN JAVA**

#### Unit I

Fundamentals Of Object Oriented Programming – Java Evolution – Overview Of Java Language – Data Types , Variables , Arrays – Operators – Control Statements

#### **UNIT II**

Introduction to Classes – Class Fundamentals – Declaring Objects – Constructors – Methods – Overloading Methods – Nested and Inner Classes - String Handling

#### UNIT III

Inheritance – Method Overriding – Abstract Class - Packages – Interfaces - Exception Handling – Types Of Exception – Try And Catch – Nested Try Statements

#### UNIT IV

Multithreaded Programming - Stream I/O And Files: Java I/O Classes And Interfaces - File - The Stream Classes - The Byte Streams - Character Streams - Using Stream I/O - Serialization - Stream Benefits

#### UNIT V

Applets and Graphics: Fundamentals of Applets – Graphics. AWT and Event Handling: AWT Components and Event Handlers – AWT Controls and Event Handling Types and Examples

# Техт Воок

The Complete Reference Java 2 5/E Herbert Schildt

UNIT I: Chapter 1 to 5 UNIT II: Chapter 6, 7 UNIT III: Chapter 8 to 11 UNIT IV: Chapter 11, 12 UNIT V: Chapter 19, 20, 21

# REFERENCE BOOKS

- 1. Programming With Java C. Muthu
- 2. Programming With Java A Primer 3/E E. Balaguruswamy

Part – A	Part – B	Part – C
Answer all the Questions	Internal Choice Type	Answer any 3 Questions
10 X 2 = 20 Marks	5 X 5 = 25 Marks	3 X 10 = 30 Marks
Question 1,2 – 1 Unit	11a (or) 11b – 1 Unit	16 – I Unit
3,4 – II Unit	12a (or) 12b – II Unit	17 – II Unit
5,6 – III Unit	13a (or) 13b – III Unit	18 – III Unit
7,8 – IV Unit	14a (or) 14b – IV Unit	19 – IV Unit
9,10 – V Unit	15a (or) 15b – V Unit	20 – V Unit

Subject Code:

# CCM6P - PROGRAMMING IN JAVA LAB

- 1. Classes and Objects
- 2. Control Statement
- 3. Constructors
- 4. Method Overloading
- 5. String Handling
- 6. Inheritance
- 7. Method Overriding
- 8. Packages and Interfaces
- 9. Exception Handling
- 10. Threads
- 11. File Processing
- 12. Graphics Methods
- 13. AWT controls
- 14. AWT Event Handling

# **CCA3 - FINANCIAL ACCOUNTING**

#### Unit I

Fundamentals of Book - Keeping, Accounting Concepts - Conventions - Rules Of Single and Double Entry - Journal - Ledgers

#### **UNIT II**

Subsidiary Books and Various Methods - Trial Balance – Rectification of Errors - Bank Reconciliation Statement

#### UNIT III

Trading Account - Profit And Loss Account - Balance Sheet - Preparation of Final Account - Final Account with Adjustment

# **UNIT IV**

Depreciation and Various Methods of Straight Line Method - Written Down Value Method - Annuity Method - Sinking Fund Method

#### Unit V

Difference Between Capital - Revenue And Deferred Revenue Expenses - Fund Flow - Cash Flow Analysis - Ratio Analysis And Their Methods Of Current Ratio - Quick Ratio - Liquid Ratio

# Техт Воокѕ

- 1. Financial Account T.S Reddy and A. Murthy Margham Publications.
- 2. Advanced Accounting Volume I & Ii [Financial Accounting] Dr. S. Peer Mohamed, Dr. S.A. N. Shazuli Ibrahim. Pass Publications.

UNIT I: Chapter 1.01 – S2.40 UNIT II: Chapter 3.01 - 5.29 UNIT III: Chapter 6.01 - 7.64 UNIT IV: Chapter 10.01 - 10.47 UNIT V: Chapter 11.01 - Vol –II

# REFERENCE BOOK

Advance Accounting - M.C Shukla, T.S. Grewal & S.C. Gupta - S. Chand And Co.,

Part – A	Part – B	Part – C
Answer all the Questions	Internal Choice Type	Answer any 3 Questions
10 X 2 = 20 Marks	5 X 5 = 25 Marks	3 X 10 = 30 Marks
Question 1,2 – 1 Unit	11a (or) 11b – 1 Unit	16 – I Unit
3,4 – II Unit	12a (or) 12b – II Unit	17 – II Unit
5,6 – III Unit	13a (or) 13b – III Unit	18 – III Unit
7,8 – IV Unit	14a (or) 14b – IV Unit	19 – IV Unit
9,10 – V Unit	15a (or) 15b – V Unit	20 – V Unit

Subject Code:

# **CCA4P - ACCOUNTING SOFTWARE LAB**

- 1. Company Creations
- 2. Vouchers Types Journal
- 3. Ledger Creation Editing and Deleting.
- 4. Trial Balance
- 5. Trading Account -Gross Profit or Gross Loss
- 6. Profit And Loss Account Net Profit or Net Loss
- 7. Balance Sheet for Final Account, Identify the Items of Liabilities and Assets
- 8. Final Account with Adjustment
- 9. Final with Adjustment Calculation Depreciation

# NMEC1 - MANAGEMENT INFORMATION SYSTEMS

# Unit I

Foundations of Information Systems in Business: Foundation Concepts – Components of Information Systems

#### **UNIT II**

Competing with Information Technology: Fundamentals of Strategic Advantage – Using Information Technology for Strategic Advantage

#### UNIT III

Data Resource Management: Technical Foundations of Database Management – Managing Data Resources.

#### UNIT IV

Telecommunications and Networks: The Networked Enterprise – Telecommunications Network Alternatives

### UNIT V

Decision Support Systems: Decision Support in Business – Artificial Intelligence Technology in Business – Developing Business / IT Solutions

# **TEXT BOOK**

"Management Information Systems", James A. O'brien, Fourth Edition, Galgotia Publications, 1999.

UNIT I: Chapter 1 UNIT II: Chapter 2 UNIT III: Chapter 5 UNIT IV: Chapter 6 UNIT V: Chapter 9, 10

#### REFERENCE BOOK

"Management Information Systems", Gordon B. Davis Margrethe H. Olson, 2nd Edition, McGraw Hill.

**Question Pattern** 

Answer any 5 out of 8 Questions 5 X 15 = 75 Marks

# CCM7 - RELATIONAL DATABASE MANAGEMENT SYSTEMS

#### Unit I

Introduction – File and Database System – Data Abstraction – Instances and Schemas – Database Languages – Database System Structure – Database Administrator

#### Unit II

Data Models – E-R- Diagram – Key Constraints – Extended ER Features – ER Diagram with Relationships – Aggregate Functions – Relational Algebra: Fundamental Operations

# **UNIT III**

SQL – Data Definition – Queries in SQL – Nested Sub Queries – Modification of the Database - Views – Joined Relations – Data Definition Language - Embedded SQL

#### **UNIT IV**

Normalization – Types of Normalization – File Organization – Organization of Records in Files – Storage Structure of Object Oriented Database – Hashing Techniques: Static Hashing – Dynamic Hashing

# Unit V

Concurrency Control - Lock Based Protocols - Time Stamp Based Protocols - Validation-Based Protocols - Multiple Granularity - Deadlock Handling - Object Oriented Database - Object Oriented Data Model - Inheritance

# **TEXT Book**

Henry F. Korth Abraham Silberschatz , Database System Concepts , Fourth Edition McGraw Hill International Editions 2002

UNIT I: Chapter 1 UNIT II: Chapter 2, 3 UNIT III: Chapter 4

UNIT IV: Chapter 7, 10, 11 UNIT V: Chapter 14, 8

# REFERENCE BookS

- 1. James Martin, "Computer Data Base Organization", Second Edition Prentice Hall
- 2. C.J. Date, "An Introduction to Database System", Seventh Edition, Pearson Education, New Delhi, 2002.

Part – A	Part – B	Part – C
Answer all the Questions	Internal Choice Type	Answer any 3 Questions
10 X 2 = 20 Marks	5 X 5 = 25 Marks	3 X 10 = 30 Marks
Question 1,2 – 1 Unit	11a (or) 11b – 1 Unit	16 – I Unit
3,4 – II Unit	12a (or) 12b – II Unit	17 – II Unit
5,6 – III Unit	13a (or) 13b – III Unit	18 – III Unit
7,8 – IV Unit	14a (or) 14b – IV Unit	19 – IV Unit
9,10 – V Unit	15a (or) 15b – V Unit	20 – V Unit

Subject Code:

# **CCM8P - RDBMS LAB**

- 1. To Implement Data Definition Language
  - 1.1. Create, Alter, Drop, Truncate
  - 1.2. To Implement Constraints.
    - 1.2.1. (A) Primary Key, (B) Foreign Key, (C) Check, (D) Unique, (E) Null,
  - (F) Not Null, (G) Default, (H). Enable Constraints, (I) Disable Constraints, (J) Drop Constraints
- 2. To Implementation On DML, TCL And DRL
- 2.1. (A) Insert, (B) Select, (C) Update, (D) Delete, (E) Commit, (F) Rollback, (G) Save Point, (I) Like'%', (J) Relational Operator
- 3. To Implement Nested Queries & Join Queries
  - 3.1. (A) To Implementation of Nested Queries
  - 3.2. (B) (A) Inner Join, (B) Left Join, (C) Right Join (D) Full Join
- 4. To Implement Views
  - 4.1. (A) View, (B) Joint View, (C) Force View, (D) View With Check Option
- 5. Control Structure
  - 5.1. To Write a PL/SQL Block for Addition of Two Numbers
  - 5.2. To Write a PL/SQL Block for If Condition
  - 5.3. To Write a PL/SQL Block for If and Else Condition
  - 5.4. To Write a PL/SQL Block for Greatest of Three Numbers Using If and Elseif
  - 5.5. To Write a PL/SQL Block for Summation of Odd Numbers Using For Loop

# SBEC2 - CLIENT / SERVER SCRIPTING LANGUAGE

#### Unit I

Introduction To Client/Server Computing - What Is Client/Server Computing -Benefits Of Client/Server Computing -Evaluation Of Client/Server Computing - Hardware And Software Trends - Categories Of Client/Server Computing

#### **UNIT II**

JavaScript: JavaScript Variables and Data Types - Declaring Variables - Data Types Statements and Operators - Control Structures - Conditional Statements - Loop Statements Object

#### **UNIT III**

Based Programming- Functions - Executing Deferred Scripts - Objects Message Box In JavaScript- Dialog Boxes - Alert Boxes - Confirm Boxes

# **UNIT IV**

VBScript: What Is VBScript Adding- Script Code To An HTML Page- VBScript Basics - VBScript Data Types - VBScript Variables - VBScript Constants - VBScript Operators

#### Unit V

Using Conditional Statements- Looping Through Code -VBScript Procedures - VBScript Coding Conventions - Dictionary Object in VBScript

# **TEXT BookS**

- 1. Teach Yourself VBScript in 21 Days By Keith Brophy, Timothy Koets
- 2. Teach Yourself JavaScript in 21 Days By Keith Brophy, Timothy Koets

#### REFERENCE BOOK

Programming the World Wide Web - Robert W. Sebesta Fourth Edition Pearson

Part – A	Part – B	Part – C
Answer all the Questions	Internal Choice Type	Answer any 3 Questions
10 X 2 = 20 Marks	5 X 5 = 25 Marks	3 X 10 = 30 Marks
Question 1,2 – 1 Unit	11a (or) 11b – 1 Unit	16 – I Unit
3,4 – II Unit	12a (or) 12b – II Unit	17 – II Unit
5,6 – III Unit	13a (or) 13b – III Unit	18 – III Unit
7,8 – IV Unit	14a (or) 14b – IV Unit	19 – IV Unit
9,10 – V Unit	15a (or) 15b – V Unit	20 – V Unit

Subject Code:

# CCM9 – PROGRAMMING IN C#

# Unit I

Introduction to C # : Evolution of C# - Characteristics of C# - Application of C# - Difference Between C++ and C# - Difference Between Java and C# - The C# Environment - Overview of C#

# **UNIT II**

Literal, Variables and Data Types: Literals - Variables- Data Types - Value Types - Reference Type - Declaration of Variables - Initialization Of Variables - Default Values - Constant Variables - Scope Of Variables - Boxing And Unboxing. Operators and Expression: Various Operators

# **UNIT III**

Decision Making And Branching: If Statement - - Switch Statement - The ?: Operator. Decision Making And Looping: While Statement - Do Statement - For Statement - Jumps In Loops

# **UNIT IV**

Methods in C#: Declaring Methods - The Main Method - Methods Parameters - Pass by Value - Pass by Reference - Variable Arguments List - Method Overloading. Handling Arrays: Arrays - Manipulating String: Strings - Classes And Objects: Class - Objects - Constructors - Destructors

# Unit V

Inheritance and Polymorphism: Classical Inheritance - Overriding Methods - Polymorphism. Interfaces: Multiple Inheritances - Interface. Operator Overloading: Overloading Operators

#### TEXT BOOK

E. Balagurusamy, "Programming in C#", Tata McGraw Hill, 2004.

UNIT I: Chapter 1, 2, 3 UNIT II: Chapter 4, 5 UNIT III: Chapter 6, 7

UNIT IV: Chapter 8, 9, 10, 12(12.1 – 12.15)

UNIT V: Chapter 13, 14, 15

# REFERENCE BOOK

Fundamentals of Computer Programming with C# - Svetlin Nakov, Kindle Edition

Part – A	Part – B	Part – C
Answer all the Questions	Internal Choice Type	Answer any 3 Questions
10 X 2 = 20 Marks	5 X 5 = 25 Marks	3 X 10 = 30 Marks
Question 1,2 – 1 Unit	11a (or) 11b – 1 Unit	16 – I Unit
3,4 – II Unit	12a (or) 12b – II Unit	17 – II Unit
5,6 – III Unit	13a (or) 13b – III Unit	18 – III Unit
7,8 – IV Unit	14a (or) 14b – IV Unit	19 – IV Unit
9,10 – V Unit	15a (or) 15b – V Unit	20 – V Unit

# **CCM10P - PROGRAMMING IN C# LAB**

- 1. Simple Programs
- 2. Command Line Arguments
- 3. Boxing And Unboxing
- 4. Control Structure
- 5. Branching And Looping
- 6. Methods
- 7. Arrays
- 8. String Handling
- 9. Class And Objects
- 10. Constructors And Destructors
- 11. Inheritance
- 12. Polymorphism
- 13. Operator Overloading
- 14. Implementing Interface

# **CCM11- DATA STRUCTURES**

# Unit I

Basic Terminology – Data Structure Operations – Algorithms: Complexity, Time Space Tradeoff – Arrays: Linear Array – Representation – Inserting and Deleting – Bubble Sort – Linear Search- Binary Search

#### Unit II

Linked List: Representation – Traversing – searching – Insertion – Deletion- Two Way List

#### **UNIT III**

Stack: Array Representation – Linked Representation – Arithmetic Expression – Quick Sort – Queue - Linked Representation

# **UNIT IV**

Trees: Binary Tree Representation – Traversing – Traversal Algorithms Using Stack – Threads - Binary Search Trees - Insertion – Deletion in Binary Search Trees – Heap Sort

### Unit V

Graph: Terminology – Sequential Representation of Graph – Linked Representation of Graph- Operations on Graphs – Sorting: Insertion Sort – Selection Sort – Merge Sort

### Техт Воок

Data Structures - Lipschuta, Tata Mcgraw Hill, Schaum's Outline Series.

UNIT I: Chapter 1, 4

UNIT II: Chapter 5

UNIT III: Chapter 6

UNIT IV: Chapter 7

UNIT V: Chapter 8, 9

# REFERENCE BOOK

Fundamentals Of Data Structure – Ellis Horowitz And Sartaj Sahini

Part – A	Part – B	Part – C
Answer all the Questions	Internal Choice Type	Answer any 3 Questions
10 X 2 = 20 Marks	5 X 5 = 25 Marks	3 X 10 = 30 Marks
Question 1,2 – 1 Unit	11a (or) 11b – 1 Unit	16 – I Unit
3,4 – II Unit	12a (or) 12b – II Unit	17 – II Unit
5,6 – III Unit	13a (or) 13b – III Unit	18 – III Unit
7,8 – IV Unit	14a (or) 14b – IV Unit	19 – IV Unit
9,10 – V Unit	15a (or) 15b – V Unit	20 – V Unit

# **CCE1 - OPERATING SYSTEMS**

#### Unit I

Evolution of Operating Systems – Types of Operating System – Different Views of OS – Design and Implementation Of Operating Systems – I/O Programming Concepts

# **UNIT II**

Memory Management – Single Contiguous Allocation- Partitioned Allocation – Relocatable Partitions Allocations – Paged and Demand Paged Memory Management – Segmented Memory Management – Segmented and Demand Paged Memory Management – Overlay Techniques - Swapping

#### UNIT III

Processor Management – Job Scheduling – Process Scheduling – Functions And Policies – Evolution Of Round Robin Multiprogramming Performance – Process Synchronisation – Race Condition – Synchronization Mechanism – Deadly Embrace – Synchronisation Performance Considerations

# **UNIT IV**

Device Management: Techniques For Device Management – Device Characteristics – I/O Traffic Controller, I/O Scheduler, I/O Device Handlers – Virtual Devices – Spooling

#### IINIT V

File Management: Simple File System - General Model of a File System - Physical and Logical File System

#### TEXT BOOK

"Operating Systems" – E. Madnick & John J. Donavan, Tata McGraw Hill Publishing Co., Limited.

UNIT I: Chapter 1, 2(Page 54)

UNIT II: Chapter 3 UNIT III: Chapter 4 UNIT IV: Chapter 5 UNIT V: Chapter 6

### REFERENCE BOOK

"System Programming And Operating Systems" – D.M. Dhamdhere, Tata Mcgraw Hill Publishing Co., Limited.

Part – A	Part – B	Part – C
Answer all the Questions	Internal Choice Type	Answer any 3 Questions
10 X 2 = 20 Marks	5 X 5 = 25 Marks	3 X 10 = 30 Marks
Question 1,2 – 1 Unit	11a (or) 11b – 1 Unit	16 – I Unit
3,4 – II Unit	12a (or) 12b – II Unit	17 – II Unit
5,6 – III Unit	13a (or) 13b – III Unit	18 – III Unit
7,8 – IV Unit	14a (or) 14b – IV Unit	19 – IV Unit
9,10 – V Unit	15a (or) 15b – V Unit	20 – V Unit

# NMEC2 - COMMUNICATION SKILLS AND PERSONALITY DEVELOPMENT

# UNIT I

Attitude and Altitude

# **UNIT II**

Inter-Personal Skills - Presentation Skills

# **UNIT III**

Business Communication - Business Correspondence

# **UNIT IV**

Interview - Group Dynamics

# Unit V

Internet for Job Seekers

# Техт Воок

Prof. G. Ravindran, Dr. S.P. Benjamin Elango and Dr. L. Arockiam, "Success through Soft Skills", ICT, 2009.

UNIT I: Chapter 1

UNIT II: Chapter 6, 8

UNIT III: Chapter 7, 9

UNIT IV: Chapter 10, 11

UNIT V: Chapter 12

**Question Pattern** 

Answer any 5 out of 8 Questions 5 X 15 = 75 Marks

# SBEC3 - INTRODUCTION TO OFFICE MANAGEMENT

# **UNIT I**

Office Management – Meaning – Elements of Office Management – Functions of Office Management

# **UNIT II**

Office Organization – Definition, Characteristics and Steps – Types of Organizations – Functions of an Office Administrator

# **UNIT III**

Office Record Management - Importance -Filing Essentials - Classification and Arrangement of Files - Modern Methods of Filing - Modern Filing Devices

# **UNIT IV**

Office Communication –Correspondence and Report Writing – Meaning of Office Communication and Mailing

# **UNIT V**

Form Letters – Meaning, Principles and Factors to be considered in Designing Office Forms – Types of Report Writing

# **TEXT BOOKS**

- 1. Fundamentals of Office Management by J.P. Mahajan
- 2. Office Management by S.P. Arrora
- 3. Office Management R.S.N. Pillai and Bagavathi S. Chand

Part – A	Part – B	Part – C
Answer all the Questions	Internal Choice Type	Answer any 3 Questions
10 X 2 = 20 Marks	5 X 5 = 25 Marks	3 X 10 = 30 Marks
Question 1,2 – 1 Unit	11a (or) 11b – 1 Unit	16 – I Unit
3,4 – II Unit	12a (or) 12b – II Unit	17 – II Unit
5,6 – III Unit	13a (or) 13b – III Unit	18 – III Unit
7,8 – IV Unit	14a (or) 14b – IV Unit	19 – IV Unit
9,10 – V Unit	15a (or) 15b – V Unit	20 – V Unit

# CCM12 - PROGRAMMING IN VB.NET

#### Unit I

Introduction to Microsoft.Net Framework: Introduction – Start Page – IDE Main Window – Class View Window – Object Browser – Code Window – Compiling the Code – Code Debugging - Developing a Simple VB.NET Console Application – Developing Simple VB.NET Project through Visual Studio IDE

#### **UNIT II**

Variables Constants and Expressions: Value Types and Reference Types – variable Declaration and Initialization – Value Data Types – Reference Data Types - Boxing and Unboxing – Arithmetic Operators and expressions - Text Box Control - Label Control - Button Control – Control Statements – IF Statement - Radio Buttons - Check Box – Group Box - List Box – Checked Listbox - Combo Box Control – Select ... Case – While – Do – For Statements

# **UNIT III**

Methods and Arrays - Types of Methods - Arrays - One Dimensional - Multidimensional Arrays - Jagged Arrays - Classes Properties and Indexes: Definition and Usage of Class - Constructor Overloading - Copy Constructor - Instance and Shared Class Members - Shared Constructor - Properties - Indexes Inheritance and Polymorphism

# **UNIT IV**

Definition and Usage of Interfaces – Namespaces - Delegates – Events – Default Exception Handling Mechanism – User Defined Exception Handling Mechanism – Back Tracking – Throw Statement - Custom Exception – Usage of Thread – Thread Class – Start(), Abort(), Join(), Sleep(), Suspend() and Resume Methods

#### UNIT V

Database Connectivity: Advantages of ADO.NET – Managed Data Providers – Developing Simple Application – Creation of a Data Table – Retrieving Data from Tables – Table Updating

#### **TEXT Book**

Visual Basic. Net, C. Muthu, Vijay Nicole Imprints Private Limited

UNIT I: Chapter 2 UNIT II: Chapter 3, 4 UNIT III: Chapter 5, 6, 7 UNIT IV: Chapter 8, 9, 10, 11

UNIT V: Chapter 12, 15

# REFERENCE Book

The Complete Reference – Visual Basic . NET – Jefrey R. Shapiro , Tata McGraw Hill, 2002.

Part – A	Part – B	Part – C
Answer all the Questions 10 X 2 = 20 Marks	Internal Choice Type 5 X 5 = 25 Marks	Answer any 3 Questions 3 X 10 = 30 Marks
Question 1,2 – 1 Unit	11a (or) 11b – 1 Unit	16 – I Unit
3,4 – II Unit	12a (or) 12b – II Unit	17 – II Unit
5,6 – III Unit	13a (or) 13b – III Unit	18 – III Unit
7,8 – IV Unit	14a (or) 14b – IV Unit	19 – IV Unit
9,10 – V Unit	15a (or) 15b – V Unit	20 – V Unit

# **CCM13P - PROGRAMMING IN VB.NET LAB**

- 1. Console Applications.
- 2. Boxing and Unboxing
- 3. Control Structure
- 4. Controls
- 5. Arrays
- 6. Constructor
- 7. Inheritance
- 8. Polymorphism.
- 9. Events
- 10. Exception Handling
- 11. Thread
- 12. Database Connectivity

# CCM14 - DATA COMMUNICATION AND COMPUTER NETWORKS

#### **UNIT I**

Data Communication – Networks – Protocols And Standard – Line Configuration – Topology – Transmission Mode – Categories Of Networks – Internet Works

# **UNIT II**

The OSI Model – Functions Of The Layers – TCP/IP Protocols Suite – Signals – Analog And Digital Signal – Data Transmission – Data Terminal Equipment – Data Circuit Terminals Equipment – Modems

#### UNIT III

Transmission Of Media – Guided Media – Unguided Media – Transmission Impairments – Media Comparison – Multiplexing – FDM – TDM – WDM. Error Detection and Correction – Types of Errors – Detection – Vertical Redundancy Check (VRC) – Longitudinal Redundancy Check (LRC) – Cyclic Redundancy Check (CRC) - Check Sum – Error Correction

# **UNIT IV**

Switching – Circuit Switching – Packet Switching – Message Switching - Networking And Internetworking Devices – Repeaters – Bridges – Routers – Gateways. Routing Algorithm – Distance Vector Routing – Link State Routing

# UNIT V

Internet Working: TCP/IP Protocol Suite – Client Server Model – Domain Name System – File Transfer Protocol (FTP) – Simple Mail Transfer Protocol (SMTP) – World Wide Web (WWW) – Hyper Text Transfer Protocol (HTTP)

# **TEXT BOOK**

"Data Communications and Networking" –2<sup>nd</sup> Edition- Behrouz A Forouzan.

UNIT I: Chapter 1, 2(2.1 To 2.4)

UNIT I: Chapter 3(3.1to 3.3), 4(4.1 To 4.6)

UNIT III: Chapter 7(7.1 To 7.3), 8(8.1 To 8.3), 9(9.1 To 9.7)

UNIT IV: Chapter 14(14.1 To 14.3), 21(21.1 To 21.8) UNIT V: Chapter 25(25.1, 25.3, 25.5, 25.7, 25.9, 25.10)

# REFERENCE BOOK

- 1. Computer Networks- Tanenbaum
- 2. Computer Networks -William Stallings

Part – A	Part – B	Part – C
Answer all the Questions	Internal Choice Type	Answer any 3 Questions
10 X 2 = 20 Marks	5 X 5 = 25 Marks	3 X 10 = 30 Marks
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5,6 – III Unit	13a (or) 13b – III Unit	18 – III Unit
7,8 – IV Unit	14a (or) 14b – IV Unit	19 – IV Unit
9,10 – V Unit	15a (or) 15b – V Unit	20 – V Unit

# **CCE2 - SOFTWARE ENGINEERING**

# Unit I

Introduction – Definitions – Size Factors – Quality and Productivity Factors – Managerial Issues - Planning A Software Project – Introduction – Defining The Problem – Developing A Solution Strategy – Planning The Development Process – Planning An Organizational Structure – Other Planning Activities.

#### UNIT II

Software Cost Estimation: Software – Cost Factors – Software Cost Estimation Techniques – Specification Techniques Staffing – Level Estimation: Estimating Maintenance Costs.

#### **UNIT III**

Software Requirements Definition – Software Requirement Specification – Formal Specification Techniques – Languages and Processors for Requirements

# **UNIT IV**

Software Design – Fundamental Design Concepts – Modules And Modularization Criteria – Design Notations – Design Techniques – Detailed Design Considerations – Real Time And Distributed System Design – Test Plans – Milestones, Walkthroughs And Inspections – Design Guidelines.

#### Unit V

Verification and Validation Techniques – Quality Assurance – Walkthroughs and Inspections – Static Analysis – Symbolic Execution – Unit Testing and Debugging – System Testing – Formal Verification

#### TEXT BOOK

"Software Engineering Concepts" – Richard Fairley.

UNIT I: Chapter 1, 2 UNIT II: Chapter 3 UNIT III: Chapter 4 UNIT IV: Chapter 5 UNIT V: Chapter 7 REFERENCE BOOK

"Software Engineering: A Practitioners Approach" by Roger, S. Pressman McGraw Hill International Book Company.

Part – A	Part – B	Part – C
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7,8 – IV Unit	14a (or) 14b – IV Unit	19 – IV Unit
9,10 – V Unit	15a (or) 15b – V Unit	20 – V Unit

Subject Code:

# **CCE3 - E - COMMERCE AND ITS APPLICATIONS**

#### Unit I

Introduction: Electronic Commerce Frame Work: The Anatomy of E-Commerce Applications- Electronic Commerce Consumer Applications – Electronic Commerce Organisation Applications – The Network Infrastructure for E-Commerce: Components of Highway – Network Access Equipment – Global Information Distribution Networks

# **UNIT II**

The Internet as Network Infrastructure: The Internet Terminology/Chronological History Of The Internet- The Business Of Internet Commercialization: Telco/Cable/Online Companies –National Independents ISPs – Regional Level ISPs – Local Level ISPs

#### UNIT III

Network Security And Firewalls: Client Server Network Security – Firewalls And Network Security – Data And Message Security – Challenge Response System – Encrypted Documents And Electronic Mail – Electronic Commerce And World Wide Web: Architectural Framework For E-Commerce- Technology Behind The Web – Security And The Web

#### UNIT IV

Inter Organisational Commerce and Edi: Electronic Data Interchange – Edi Application in Business – EDI Implementation, Mime and Value Added Networks: EDI Software Implementation – EDI Envelope for Message Transport- Value-Added Networks (VANs) –Internet – Based EDI

# Unit V

Advertising And Marketing On The Internet: The New Age Of Information Based Marketing – Advertising On The Internet – Charting The Online Marketing Process – Software Agents – Characteristics And Properties Of Agents – The Technology Behind Software Agents – Applets, Browsers And Software Agents

#### TEXT BOOK

Ravikalakola & Andrew Whinston, "Frontiers of Electronic Commerce", Addison Wesley, 2000.

UNIT I: Chapter 1, 2 UNIT II: Chapter 3, 4 UNIT III: Chapter 5, 6 UNIT IV: Chapter 9, 10 UNIT V: Chapter 13, 16

# REFERENCE BOOK

Electronic Commerce – Rary P. Schneider and James T. Parry.

•		-
art – A	Part – B	Part – C
Answer all the Questions	Internal Choice Type	Answer any 3 Questions
10 X 2 = 20 Marks	5 X 5 = 25 Marks	3 X 10 = 30 Marks
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