BCom(Computers) SYLLABUS

Semester I

JMJ COLLEGE FOR WOMEN (AUTONOMOUS) :: TENALI-522203
I Year B.Com (CBCS).,Restructured (Computer Applications) I Semester
Paper-103: Fundamentals of Computers PPW :06 Hours

UnitI: Introduction toComputers - Input and Output Devices

UnitII: ComputerMemoryand Processors - NumberSystemsandComputerCodes

UnitIII: ComputerSoftware - OperatingSystems - DatabaseSystems

UnitIV: IntroductiontoWindows,Desktop,File,Folder,MyComputer,Mydocuments,Recycle bin,Internet Explorer,WindowsExplorer. **OfficeAutomation**:Organization ofan Office,Natureofofficework,Needforoffice automation. **Document Preparation:**Word processing,Variousoffice equipmentthathelpindocument preparation,Documentstorageand retrieval.
UnitV: Word Basics: Starting word, Creating a new document, Opening preexisting document,P a r t s ofawordwindow,Typingtext,Selectingtext,Deletingtext, Undo, Redo,Repeat,Insertingtext, Replacingtext, Formattingtext,Cut,Copy,Paste – Printing.
FormattingYourText andDocuments:Autoformat,Linespacing,Margins,Borders andShading.
WorkingwithHeadersandFooters:Definitionofheadersandfooters,creating basic headersand footers,creatingdifferent headers and footersforodd and evenpages.**Tables:**Creatingasimpletable,Creating atableusingthetablemenu,Enteringand editingtextinatable,selectingintable,addingrows,changingrow heights,Deleting rows,Insertingcolumns,Deletingcolumns,changingcolumn width.**Graphics**:Importinggraphics,Clipart,Insert picture,ClipArt Gallery,usingword's drawingfeatures,drawingobjects, text indrawing.

TextBooks :
1. ReemaThareja, Fundamentals of Computers,Oxford University Press.
2. BajaK.K.,OfficeAutomation ,MacMillan IndiaLtd,1996.
3. SteveSagman,MicrosoftOfficeXPforWindows,PearsonEducation,Asia, 2002
4. JenniferFulton,MicrosoftOffice2000,Prentice-HallofIndia,1999.

ReferenceBooks:
1.PeterNorton,IntroductiontoComputers,6th Edition,TataMcGraw–Hill.
2. JacobBeckerman,HowtoBuildaComputer2014-15:Learn,SelectParts, Assemble,andInstall:AStep byStep GuidetoYourFirst Homebuilt.
3. Leon Aand Leon M,ComputersforEveryone,Leon Vikas, 2001.
4. Turban E, Rainer R K, and Potter R E, Introduction to Information Technology,John Wiley&Sons, 2000.

Semester II

JMJ COLLEGE FOR WOMEN (AUTONOMOUS) :: TENALI-522202

I Year B.Com (CBCS)., Restructured (Computer Applications) II Semester

Paper-106: Office Automation Tools PPW : 06 Hours

Unit I: MS PowerPoint: Introduction, Building a presentation, Outlining the presentation, Creating text and chart slides, Formatting charts, Customizing presentation, Drawing on slides, Creating slide shows. **Creating Presentations:** Using auto content wizard, Blank presentation option, Design template option, Adding slides, Deleting a slide, Importing Images from the outside world, Drawing in power point, Transition and build effects, Deletinga slide, Numbering a Slide, Saving presentation, Closing presentation, Printing presentation elements.

Unit-II: MS Excel*:* Excel Features, Getting started, Creating New worksheet, Selecting cells, Entering and editing text, Entering and editing Numbers, entering and editing. Formulas, Referencing cells, Moving cells, Copying cells, Sorting cells, Data inserting rows, Inserting columns, Inserting cells, Deleting parts of worksheet, clearing parts of work sheet. **Formatting**: Page set-up, changing Column widths and Row heights, auto format, changing font sizes and attributes, centering text across columns, using border buttons and Commands, changing colors and shading, hid in grows and columns.

Unit-III: Introduction to Functions: Parts of Functions, Functions requiring Add-ins, Function Wizard – Functions by category: Data and time functions, Engineering functions, Math and Trigfunctions, Statistical functions, Text functions. **Excel Charts**: Chart parts and terminology, Instant charts with chard wizard, creation of different types of charts, printing charts, deleting charts – Linkingin Excel

Unit IV MS Access: Creating a Simple Database and Tables: Creating contacts Data bases with Wiz, Access Table Wizard, Creating Database Tables without wizard, Field Names, Data Types and Properties, Adding, deleting, renaming the fields in a table. **Forms:** Form Wizard, Saving Forms, Modifying Forms. **Entering and Editing Data**: Adding Records, Duplicating previous entries without Retyping, Undo, Correcting Entries, Global Replacements, Moving from Record to Record in a table. **Finding, Sortingand Displaying Data**: Queries and Dynasets, Creating and using select queries, Returning to the Query Design, Multi level Sorts, Finding incomplete matches, Showing all Records after a Query, Saving Queries, Crosstab Queries. **Relational Databases:** Flatvs. Relational, Types of Relationships, Viewing Relationships, Defining and Redefining Relationships, Creating and Deleting Relationships. **Reports**: Introduction to Reports.

Unit-V: Computer Networks: Internet – Emerging Computer Technologies.

Textbooks :

1. Baja K K, Office Automation ,MacMillan IndiaLtd,1996.
2. Steve Sagman, Microsoft Office XP for Windows, Pearson Education Asia, 2002.
3. Jennifer Fulton, Microsoft Office 2000, Prentice-Hall of India, 1999.
4. Reema Thareja, Fundamentals Of Computers, Oxford University Press

Reference books:

1. Windows XP Home Edition Complete, BPB Publications, 2001.
2. Raghav Bahl, Exploring Microsoft Office XP, Cyber Tech, 2001 .
3. Sanjay Saxena, MS Office2000 for Everyone, Vikas Publishing, 2001.

Semester-III

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

SUBJECT: COMPUTER SCIENCE

PAPER IV: DATA BASE MANAGEMENT SYSTEM

IIBCOM COMP III SEMESTER SYLABUS

UNIT-I

THE DATABASE ENVIRONMENT

Introduction-basic concepts and definitions-traditional file processing system-the database approach-the range of database applications-advantages of database approach-costs and risks of the database approach-components of the database environment-evolution of database systems.

UNIT-II

DATABASE DEVELOPMENT PROCESS

Introduction-database development with in information systems development-

Database development process-three-schema architecture for database development-three-

Tiered database location architecture.

UNIT-III

MODELING DATA IN THE ORGANIZATION

Introduction-modeling the rules of the organization-the er-model entity-relationship

Model constructs-relationships.

THE ENHANCED E-R MODEL AND BUSINESS RULES

Introduction-representing super types and sub types-specifying constraints in super/sub

Type relationship-entity clustering.

UNIT-IV

LOGICAL DATABASE DESIGN AND THE RELARTIONAL MODEL

Introduction-the relational data model-integrity constraints-transforming eer diagrams

To relations.

NORMALIZATON

Introduction to normalization-the basic normal forms-first normal form-second normal form-third normal form-merging relations.

UNIT-V

SQL

Introduction-history of the sql standard-the role of sql in a database architecture-the sql environment-defining a database in sql-inserting,updating and deleting data-internal schema definitions in rdbms-processing single tables.

Unit wise weight age of marks:

Unit	Essays(15M) (any three)	Short Aswers(5M) (any three)	Very short Ansewers(2M)(all)
I	1	1	1
II	1	1	1
III	1	1	1
IV	1	1	1
V	1	1	1

Prescribed text books:

Modern Database Management –JEFFREY A.HOFFER,MARY B.PRESCOTTFRED R.Mc FADDEN 6TH Edition

Reference books:

1.SQL/PL SQL The programming language of ORACLE-IVAN BAY ROSS

2.ORACLE-IVAN BAY ROSS

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

SUBJECT: COMPUTER SCIENCE

PAPER IV: DATA BASE MANAGEMENT SYSTEM

IIBCOM COMP III SEMESTER MODEL PAPER

Time: 3Hrs **Max. Marks: 70M**

I. Answer any three of the following **3X15=45**

1. Explain about E-R Model?
2. Write about three- schema architecture?
3. Explain about first three normal forms?
4. Explain the Constraints in super class and sub class?
5. Write about DML Commands in SQL?

II. Answer any three of the following **3X5=15**

6. Explain about database architecture?
7. Write about referential integrity?
8. Create an Employee table and find the employee who earns highest salary?
9. Write about entity Clustering?
10. What are advantages of DBMS?

III. Answer all of the fallowing **5X2=10**

11. What is super type and sub type?
12. Explain the roles of DBA?
13. What is Database?
14. What is the difference between varchar and varchar?
15. What is transforming?

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

SUBJECT: COMPUTER SCIENCE

PAPER IV: DATA BASE MANAGEMENT SYSTEM

IIBCOM COMP III SEMESTER PRACTICAL LAB CYCLE

Time: 3 Hrs Max. Marks:50m

1. Creation of tables
2. Insert the records into the table
3. Delete the records from the table
4. Modifying the records on the table
5. Drop the table
6. Get all the tables list from the database
7. Create the queries
8. Create the queries from the dual table
9. Nested queries
10. Demonstration on different clauses
11. Usage of different functions

Semester-IV

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS), TENALI
SUBJECT: COMPUTER SCIENCE
PAPER IV: WEB TECHNOLOGIES
II B.Com (COMP) IV SEMESTER SYLLABUS

UNIT 1

HTML Basics

Introduction: HTML, XML, and the World Wide Web.

HTML: Basic HTML , The Document body ,text ,hyperlinks ,adding more formatting, lists , Tables ,using colors and images ,images.

UNIT 2

More HTML : Multimedia objects ,frames ,forms-towards interactivity ,The HTML document head in detail ,XHTML-an evolutionary markup.

Cascading style sheets: Introduction, Using styles: Simple examples, Defining your own styles, properties and values in styles, Styles sheets-A worked example, Formatting blocks of information ,Layers.

UNIT 3

An introduction to java script: what is dynamic html, java script, javascript- the basics, variables, string manipulation, mathematical functions, statements, operators, arrays, functions.

UNIT 4

Objects in java script: data and objects in java script, regular expressions, exception handling, built in objects, events.

UNIT 5

Dynamic HTML with java script: data validation, opening a new window, messages and confirmations, the status bar, writing to a different frame, rollover buttons, moving images, multiple pages in a single download, A text-only menu system, floating logos.

Unit wise weight age of marks:

Unit	Essays(15M) (any three)	Short Aswers(5M) (any three)	Very short Ansewers(2M)(all)
I	1	1	1
II	1	1	1
III	1	1	1
IV	1	1	1
V	1	1	1

Prescribed Book:

Chris bates, web programming building internet applications, second edition, wiley (2007)

Reference books:

1. Paul S. Wang Sanda S. Katila, An introduction to web design plus programming, Thomson (2007)
2. Robert w. Sebesta, Programming the world wide web, third edition, Pearson education(2007).
3. Thomas A. powell, the complete reference HTML & XHTML, fourth edition, Tata McGraw Hill(2006).
4. Abders Moller and Michael schwartzbach, An introduction to XML and web technologies, Addison Wesley(2006).
5. Joel sklar, principles of web design, Thomson(2007).
6. Raj kamal, internet and web technologies, Tata McGraw hill(2007).
7. Deitel, et al., internet and world wide web: how to program, 3rd edition, phi(2008).
8. gopalan & akilandeswari, web technology: a developer's perspective, PHI(2008).

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS), TENALI
SUBJECT: COMPUTER SCIENCE
PAPER IV: WEB TECHNOLOGIES
II B.Com (Comp) IV SEMESTER MODEL QUESTION PAPER

Time: 3Hrs **Max. Marks: 70 M**

I. Answer any three of the following: **3 X 15 = 45 M**

1. Explain different lists in html with example.

2. Explain the types of cascading style sheets with examples.

3. List out the various operators available in Java script with suitable examples.

4. Explain in detail the built in objects in Java script.

5. Explain data validation.

II. Answer any three of the following: **3 X 5 =15 M**

6. Explain the structure of a HMTL program.

7. What are forms? Create a form your college web site.

8. What is an array? Discuss the structure of an array with an example.

9. Write about exceptional handling.

10. Write about rollover buttons in DHTML.

III. Answer all the following: **5 X 2 = 10 M**

11. What is world wide web?

12. What is domain name?

13. What do you mean by hyperlinks?

14. What are class selectors?

15. What are clickable images?

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS), TENALI
SUBJECT: COMPUTER SCIENCE
PAPER IV: WEB TECHNOLOGIES
II B.Com (COMP) IV SEMESTER LAB CYCLE

1. Write a HMTL program illustrating text formatting.

2. Illustrate font variations in your HMTL code.

3. Prepare a sample code to illustrate links between different sections of the page.

4. Create a simple HMTL program to illustrate three types of lists.

5. Embed a real player in your web page.

6. Embed a calendar object in your web page.

7. Create an applet that accepts two numbers and perform all the arithmetic operators on them.

8. Create nested table to store your curriculum.

9. Create a form that accepts the information from the subscriber of a mailing system.

10. Write a Java script to accept the first, middle and last names of the user and print the name.

11. Evaluate the following:

    a) ”10”+”90”

    b) (10<8)>10:8

    c)J=(i++)+(--i)+(++i)+(i++)where i=2

12. Write a script to find the factorial of a given number using functions.

13. Write a script to print all primes within the given range.

14. Write a program to sort the array elements using”Bubble Sort” technique.

15. Write a program in Java script to implements “Binary Search”technique.

Semester-V

SUBJECT: COMPUTER SCIENCE
PAPER VII: ACCOUNTS BY TALLY
III BCOM COMP V SEMESTER SYLLABUS

UNIT-I:

MANUAL ACCOUNTING

- Need for Accounting
- Types of Accounts
- Rules of Debit and Credit
- Accounting Principles
- Journal & Ledger
- Trial balance
- Final accounts
- Balance sheet & Adjustment entries

UNIT-II

Tally 5.4

- An Introduction
- Starting Tally
- Main parts of Tally main screen
- Creating a company and starting accounts
- Selecting a company
- Shutting a company
- Working on active company
- Gateway of Tally main menu accounting features
- Inventory features

UNIT-III

Using Tally 5.4

- Masters-accounts information
- Current assets and liability
- Fixed assets
- Investments loans
- Create a new group
- Create new primary group master configurations
- Accounts
- Masters inventory masters

UNIT-IV:

Ledgers

- Multiple Ledgers
- Cost categories and cost centers
- Voucher types
- Inventory Information

Stock categories
Stock item
Unit of measures

UNIT-V

Practicing in Tally 5.4

Voucher entry
Inventory Vouchers
Viewing reports
Accounts reports
Profit and loss accounts
Stock summary
Trail balance
Statements of Accounts
Inventory books
Cash flow
Day book

Unit wise Weight age of marks:

Unit	Essays(15M) (Any three)	Short Answers(5M) (Any three)	Very Short Answers(2M) (All)
I	1	1	1
II	1	1	1
III	1	1	1
IV	1	1	1
V	1	1	1

Prescribed Text Books:

Accounts by Tally-Lalitha B. Singh
Vishnu B. Singh

Reference Books:

Implementing Tally 5.4-K.K Nadhani

JMJ COLLEGE FOR WOMEN (AUTONOMOUS): TENALI
SUBJECT: COMPUTER SCIENCE
PAPER VII: ACCOUNTS BY TALLY
III BCOM COMP V SEMESTER MODEL PAPER

Time: 3Hrs **MaxMarks: 70M**

I. Answer any three of the following **3X15=45M**

1. Explain Control Ledger groups?
2. Define Integrated and non-integrated accounts?
3. Explain Stock group and stock items?
4. Explain about concepts and conventions?
5. Explain sales tax and profit margins?

II. Answer any three of the following **3X5=15M**

6. Explain types of accounts with examples?
7. Differences between single entry system and double entry system?
8. Advantages and disadvantages of trial balance?
9. Explain Functions of Accounting?
10. What is the process to prepare final accounts?

III. Answer all the following **5X2=10M**

11. What is Accounting?
12. Difference between Journal and Ledger?
13. Define principle of double entry system?
14. Difference between tangible and intangible assets?
15. Explain tangible and intangible assets?

JMJ COLLEGE FOR WOMEN (AUTONOMOUS): TENALI
SUBJECT: COMPUTER SCIENCE
PAPER VII: ACCOUNTS BY TALLY
III BCOM COMP LAB CYCLE

1. Demonstration on Company creation with Bank Reconciliation statement
2. Demonstration on Security control
3. Demonstration on Stock Journal
4. Demonstration on ales Invoice
5. Demonstration on company creation with two partners
6. Demonstration on company creation with security control
7. Demonstration on Stock categories
8. Demonstration on Viewing reports
9. Demonstration on Accounts reports
10. Demonstration on Profit and loss accounts
11. Demonstration on Stock summary
12. Demonstration on Trail balance
13. Demonstration on Statements of Accounts
14. Demonstration on Inventory books
15. Demonstration on Cash flow

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

PAPER VI.I: E-COMMERCE

III BCOM COMP VI SEMESTER SYLABUS

Unit - I

Overview of Electronic Commerce

Main Activities of E-Commerce, Broad Goals of E-commerce, E-Commerce technical Components, Functions of E-commerce, Prospects of e-commerce, Advantages of E-Commerce, Disadvantages of E-Commerce,

Unit - II

Pre-requisites of Electronic Commerce,

Scope of E-commerce, E-commerce Technical Architecture, E-commerce Strategies, Progress of E-Commerce in India, E-Commerce Essentials, E-commerce applications, Foundation of E-Commerce, Growth of E-Commerce ,

Unit - III

Driving the E-Commerce Revolution. E-commerce Activities, Matrix of E-commerce models, B2C, B2B, B2B Boom, E-Commerce opportunity Frame work, Developing an E-Commerce Strategy, International E-Commerce, International strategy Development, Dotcom Companies.

Unit - IV

Electronic Market

Online shopping, Online purchasing, Electronic Market, Three models of Electronic Market, Markets Category, Interactive Marketing, One-to-one Marketing, Permission Marketing, pull and Push technologies, B2B Hubs, B2B market places.

Unit - V

Electronic Business

Electronic Business applications, Emerging applications, Electronic Business Architecture, AMR Model for Electronic Business, Evolution of Electronic Business Application, Dotcom companies, The Indian scenario for E-Business.

Prescribed Book:

1. E-Commerce Concepts. Models, Strategies C.S.V Murthy, Himalaya Publishing House.

Reference Book:

1. E-Commerce (A Management perspective) Turban, King Viehland, lee Pearson Education.

Unit wise weight age of marks:

Unit	Essays(15M) (any three)	Short Aswers(5M) (any three)	Very short Ansewers(2M)(all)
I	1	1	1
II	1	1	1
III	1	1	1
IV	1	1	1
V	1	1	1

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

PAPER VI.I: E-COMMERCE

V SEMESTER MODEL QUESTION PAPER

Time: 3Hrs **Max. Marks: 70 M**

I. Answer any three of the following: **3 X 15 = 45 M**

1. What are the Advantages &Disadvantages in E-Commerce?

2. Explain E-commerce Essentials?

3. Write about Business to Consumer (B2C) Commerce?

4. Explain about three models of electronic market.

5. Explain about Electronic Business Architecture ?

II. Answer any three of the following: **3 X 5 =15 M**

6. Write about the Main Activities of E-Commerce.

7. What are E-commerce applications?

8. Explain the Matrix of E-commerce models?

9. Difference between pull & push.

10. Explain AMR Model for Electronic Business?

III. Answer all the following: **5 X 2 = 10 M**

11. List any two Technical Components?.

12. What are Pre-requisites of Electronic Commerce?

13. What are Dotcom Companies?

14. What is Electronic Market?

15. Define Electronic Business?

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS): TENALI

PAPER-VI.II: MANAGEMENT OF INFORMATION SYSTEMS

III B.COM COMP-V SEMESTER SYLLABUS

Unit – I

Chapter.1: The Meaning and Role of Management Information Systems

What is Management Information System?

Note on Decision Support Systems

What is the Systems approach: The increased complexity of the business, increased complexity of management?

The system view of business

MIS organization within the company

Chapter.2: What the Manager should know about Computer Systems

Data processing and the Computer

Operation of a manual information system: Input, Processor, Storage program/ procedure, Output.

Components of a computer system: Input, CPU, Storage, Output, System Alternatives, Data communications.

Conversion of Manual to Computer based systems: System description, Input documents, Output documents, file design, Program logic, System verification, Documentation.

The Data Bank Concepts: Information storage- Manual system, Information storage and Retrieval- Data Bank.

Types of Computer based applications: Batch processing applications, Real-time Applications, decision applications.

Unit – II

Chapter.3: Database Management

The Business setting: Data & Information, What is a Database, Database Management System, Management and the Database.

Enter: The Computer: Electronic Database, DBMS Revisited, The User, Impact on Management.

Objectives of a DBMS: Database technical Overview: Data Aggregates, Data fields (elements), Data records, and Data files.

Physical & Logical storage structures: Linked list structure, Key list or Indexed-list structure, Hierarchical structure, Network structure.

Relational view of Database

Hierarchical view of the Database

Network view of the Database

Management responsibility

Unit-III

Chapter.4: Information Systems for Decision Making:

Evaluation of an Information System, Basic Information Systems: Financial Information System, Production/Operations System, Marketing Information System, Personnel Information Systems, And Other Information System.

Decision Making and MIS: Programmed and non-programmed decisions, making programmed decisions, making non-programmed decisions.

MIS as a technique for making programmed decisions: The decision rule and the computer, Management Science and Decision rule.

Unit-IV

Chapter.5: Strategic and project planning for MIS

General Business Planning

Appropriate MIS response: Mission Statement, Objectives, Strategic & operating plans.

MIS Planning: General: The need for system view, MIS Objectives, Strategic/ Project planning.

MIS Planning: Details: Needs & Objectives, Planning techniques, work break-down structure, sequence planning, master program schedule, budgeting, reporting techniques, reporting problems, Control through “Completed Action”.

Chapter.6: Conceptual System Design:

Definition, define the problems, Set system objectives,

Establish System constraints: Internal constraints and External constraints.

Determine Information needs: Personal attributes, Organizational environment, Structure of the environment.

Determine Information sources: Analysis and Integration, Information sources-Summary.

Unit-V

Chapter.7: Implementation, Evaluation of the MIS:

Plan the Implementation: Identify implementation task, Establish relationship among task, establish a schedule, Prepare a fast schedule tied to tasks and time, establish reporting and control system.

Acquire Floor space and Plan space Layouts,

Organize for implementation,

Develop procedures for Implementation,

Train the operating, personnel.

Computer related acquisitions: Hardware, Software, Personnel, and Materials.

Develop forms for data collection and Information Dissemination,

Develop the Files

Cutover

Evaluate the MIS

Unit wise Weight age of marks:

Unit	Essays(15M) (Any three)	Short Answers(5M) (Any three)	Very Short Answers(2M) (All)
I	1	1	1
II	1	1	1
III	1	1	1
IV	1	1	1
V	1	1	1

Prescribed Books

- Information Systems for Modern Management- Robert G. Murdick, Joel E. Ross, James R. Claggett Prentice-Hall India- Third edition

Reference Books

- Management of Information Systems 10th Edition
  Managing the Digital Firm- Kenneth C Laudon, Jane P. Laudon

- Management Information System
  Solving Business problems with Information Technology- Gerald V. Post

David L. Anderson

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS): TENALI

PAPER-VI.II :MANAGEMENT OF INFORMATION SYSTEMS

III B.COM COMP-V SEMESTER MODEL PAPER

Time: 3 Hrs **MaxMarks: 70 M**

I. Answer any three of the following: 3X15=45M

1. What are the components of a computer system?
2. Describe database technical overview
3. Explain about basic information systems
4. Explain MIS planning in detailed manner
5. How to evaluate the MIS

II. **Answer any three of the following: 3X5=15M**

6. What is the MIS organization within the company?
7. What are the objectives of DBMS?
8. Explain about decision making & MIS?
9. Summarize general business planning
10. Write a short notes on cutover

III. Answer all of the following: 5X2=10M

11. What is MIS?
12. What is an electronic database?
13. What are the methods of decision making?
14. Define internal & external constraint?
15. What are computer related acquisitions?

Semester-VI

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS): TENALI
SUBJECT: COMPUTER SCIENCE
PAPER VII.II: FUNDAMENTALS OF C++
B.COM (COMP) V SEMESTER SYLLABUS

Unit –I:
Object Oriented Programming
Introduction to OOP, OOP characteristics: Class, Inheritance, Encapsulation, Abstraction, Polymorphism, Operator Overloading, Function Overloading, Function Defining, Software Reusability. Benefits of OOP, Applications of OOP

Unit-II:
C versus C++:
Comparison between C and C++.
Applications of C++, Structure of C++ Program, Input Statement Cin>> , Output Statement Cout<<, Keywords
Data Types in C++: Built-in-data types, User defined, Derived types,
Operators in C++: Arithmetic Operators, Logical Operators, Relational Operators, Unary Operators: Increment Operator (++), Decrement Operator (--), Insertion operator, Extraction operator, Scope resolution operator, Member dereferencing operator, Manipulators.

Unit –III:
Introduction to Arrays - Declaration of Arrays - Different Types of Arrays: - One Dimensional Array, Two Dimensional Arrays, Multi Dimensional Arrays
Functions in C++: Definition, Function prototyping, Call by value, Call by reference, Return by reference, Inline Functions, Function Overloading, Friend functions, Virtual Functions.

Unit-IV:
Constructors and Destructors:
Constructors: Default Constructor, Parameterized Constructor, Constructors with default arguments, Constructor Overloading, Copy constructor, Dynamic Constructor, Destructors
Operator overloading:
Defining operator overloading, overloading unary operators, overloading binary operators
Unit –V:
Control Structures: If statement, Switch Statement, While Statement, Do..While Statement, For Statement.
Unit wise Weight age of marks:

Unit	Essays(15M) (Any three)	Short Answers(5M) (Any three)	Very Short Answers(2M) (All)
I	1	1	1

II	1	1	1
III	1	1	1
IV	1	1	1
V	1	1	1

Prescribed Book:

Object Oriented Programming with C++ by E.Balagurusamy

Reference Books:

1) Introduction to Object Oriented Programming with C++ by Yashavant Kanetkar.
2) Programming with C++ by D.Ravichandran .
3) Let Us C++ by Yashavant Kanetkar.

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS): TENALI
SUBJECT: COMPUTER SCIENCE
PAPER VII.II: FUNDAMENTALS OF C++
MODEL QUESTION PAPER

Time: 3Hrs **Max. Marks: 70M**

I) Answer any three of the following: 3X15=45M

1) Explain characteristics and benefits of OOP.
2) What are the different operators in C++.
3) Explain parameter passing techniques.
4) Explain about operator overloading?
5) What are the different control structures in C++

II) Answer any three of the following 3X5=15M

6) What are the applications of OOP
7) Comparisons between C and C++
8) Define function and write what is function prototyping?
9) What is a constructor? What are different types of constructors?
10) Write a program in C++ to demonstrate for loop?

III) Answer all the following 5X2=10M

11) What is encapsulation?
12) Write the structure of C++ program?
13) Define Array?
14) What is a destructor?
15) Write the syntax for switch statement

JMJ COLLEGE FOR WOMEN (AUTONOMOUS): TENALI

SUBJECT: COMPUTER SCIENCE

PAPER VII.II - FUNDAMENTALS OF C++

II B.COM (COMP) - VI SEMESTER – LAB CYCLE

1) Write a program to implement static data members and static member function.
2) Demonstration on inheritance.
3) Demonstration on Operators in C++
4) Demonstration on type-casting.
5) Demonstration on Arrays.
6) Demonstration on inline functions.
7) Write a program to implement friend function.
8) Demonstration on virtual functions
9) Write a program to implement multiple constructors and destructor.
10) Write a program for matrix multiplication using dynamic constructor.
11) Write a program to find transpose of matrix using unary operator overloading.
12) Write a program to concatenate strings using binary operator overloading.
13) Demonstration on Control Structures.

JMJ COLLEGE FOR WOMEN (AUTONOMOUS), TENALI
SUBJECT: COMPUTER SCIENCE
PAPER VII.I: TAXATION PACKAGE
III B.COM (COMP) – VI SEMESTER SYLLABUS

Unit I:

Working with Payroll Info Menu
Features of Tally 9 payroll
Activating Payroll in Tally 9
Payroll configuration, pay Head Creation
Creating Salary Payable Leger
Employee Individual Creation
Vouchers in Tally 9 Payroll
Payroll Buttons, Usage of Voucher Class in Tally 9 Payroll
Payroll Reports in Tally 9

Unit II:

TDS and TCS Accounting
TDS Accounting in Tally 9, Company Creation for TDS
Enabling TDS in Tally 9
Creating TDS asters in Tally 9
Creating Tax Ledger
Creating Party Ledger in Tally 9
Creating a party applicable for Lower/No Deduction
Payment Voucher for TDS, Advance to a party
TDS Reports in Tally 9
TCS Accounting in Tally 9
Certificate of TCS, TCS Exemptions
Creating Party Ledgers for Debtors/Creditors
Printing TCS Challan
TCS Reports in Tally 9

Unit III:

Service Tax
Credit Adjustment
Payment of Service Tax
Features of Service tax in Tally 9
Enabling Service Tax in Tally
Display of Service categories in Statutory Masters
Creating Sales Ledgers of Services, Creating Output Service Tax Ledger
Making Customer Ledgers
Creating Ledgers for Indirect Expenses, Creating Input Service Tax Ledgers
Creating party ledgers for Service Tax, creating Ledgers for Excise
Making purchase vouchers
Making receipts and payments voucher, Making Payments Voucher
Payment of Service Tax in Tally

Making Vouchers for Arrears
Transferring Earlier Service Tax Entries in Tally
Making a Memorandum Voucher
Service Tax Reports, TR6 Challan Titling

Unit IV:

Central Sales Tax
Inter-state sale, Subsequent Sales
CST Transaction Forms
Rate of CST, Filing of CST Returns
CST Features in Tally 9, Activating CST in Tally 9
Setting Invoice for CST
Creating CST Party Ledgers, Creating party Ledgers for sundry Debtors
Creating Sales Ledgers, Creating Purchase Ledgers
Creating CST Ledgers for Sales, Creating CST paid on Purchases Ledger
Creating Purchase Vouchers
Creating Sales Vouchers
Creating Debit and Credit Notes
CST Reports in Tally 9
Auto Fill option for CST

Unit V:

VAT Accounting
VAT Rates
Activating VAT in Tally 9
VAT Classification, Ledger Masters
Vouchers and Transactions
Creating a Purchase Voucher (As Invoice) for VAT
Creating a Sales Voucher (As Invoice) for VAT
Payment of VAT in Tally 9, Creating a Journal Voucher for VAT
Activating MRP Feature
VAT Reports in Tally 9
VAT Forms, VAT Composition
Enabling VAT Composition Returns
VAT Returns Computation Reports

Unit wise Weight age of marks:

Unit	**Essays(15M) (Any three)**	**Short Answers(5M) (Any three)**	**Very Short Answers(2M) (All)**
I	1	1	1
II	1	1	1
III	1	1	1
IV	1	1	1
V	1	1	1

Prescribed Books:

Tally 9 – Vishnu Priya Singh – CompuTech Publications Ltd.,

Tally 9 Course Kit – Namrata Agrawal – dreatech press

Reference Books:

Implementing Tally 9 – A K Nadhani & K K Nadhani –BPB publications

JMJ COLLEGE FOR WOMEN (AUTONOMOUS), TENALI
SUBJECT: COMPUTER SCIENCE
PAPER VII.I: TAXATION PACKAGE
III B.COM(COMP) – VI SEMESTER MODEL QUESTION PAPER

Time: 3 Hrs **Max.Marks: 70M**

I. Answer any THREE of the following **3x15=45M**

1. Define Taxation? What are the different types of Taxations?
2. Explain the Payroll Features?
3. What are the VAT Classification and Explain vouchers and Transactions of VAT?
4. What are features of Service Tax?
5. Differentiate between TDS & TCS Accounting?

II. Answer any THREE of the following **3x5=15M**

6. What are the different vouchers in payroll?
7. Write down the steps for generating a report on VAT?
8. How to creating an Input and Output Service Tax Ledger?
9. Explain the features of CST?
10. Write down the steps for printing a Challan?

III. Answer ALL of the following **5x2=10M**

11. What are the VAT Rates?
12. What the CST Transaction forms?
13. Define MRP?
14. How to make a voucher for Arrears?
15. Define TIN?

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JMJ COLLEGE FOR WOMEN (AUTONOMOUS), TENALI
SUBJECT: COMPUTER SCIENCE
PAPER VII.I: TAXATION PACKAGE
III B.COM (COMP) – VI SEMESTER LAB CYCLE

1. Creating Sales Vouchers
2. Creating Debit and Credit Notes
3. Demonstration on VAT
4. Display of Service categories in Statutory Masters
5. Creating Sales Ledgers of Services, Creating Output Service Tax Ledger
6. Central Sales Tax
7. Inter-state sale, Subsequent Sales
8. CST Transaction Forms
9. Rate of CST, Filing of CST Returns
10. Demonstration on TDS(Tax deducted source)
11. Demonstration on Payroll
12. Demonstration on Service tax
13. Creating CST Ledgers for Sales, Creating CST paid on Purchases Ledger
14. Setting Invoice for CST
15. Payroll Buttons, Usage of Voucher Class in Tally 9 Payroll
16. Creating a Sales Voucher (As Invoice) for VAT
17. Payment of VAT in Tally 9, Creating a Journal Voucher for VAT

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS), TENALI
SUBJECT: COMPUTER SCIENCE
PAPER VIII.I:OPERATING SYSTEMS CONCEPTS
III BCOM COMP VI SEMESTER SYLLABUS

Unit 1
OS Fundamentals and Structure of OS
Introduction – What Operating Systems do – Computer – system organization Computer System Architecture – Operating Systems structure – Operating System operations : Process management - Memory management, storage management, Protection and security – Distributed systems – Computing environments.
System structures – Operating System services – User Operating System interface – system calls – Types of system calls – system programs – Operating system structure – system Boot.

Unit 2
Process concept – Process scheduling – Operations on processes – Inter process communication Examples of IPC systems – Communication in Client server systems. Multithreading and Process Synchronization.
Multithreaded programming – Multithreading models –Thread Libraries – Threading issues – Operating System examples. Process Scheduling –Basic concepts – Scheduling Criteria – Scheduling Algorithms – Multiple process scheduling – Thread scheduling .

Unit 3
Process Synchronization – The Critical section problem – Peter's solution –Synchronization Hardware – Semaphores – Classic problems of Synchronization– Monitors – Synchronization examples.
Deadlocks – System model – Deadlock Characterization – Methods for Handling Deadlocks – Deadlock prevention –Deadlock Avoidance – Deadlock Detection – Recovery from Deadlock.

Unit 4
Memory Management Strategies.
Memory – management strategies – swapping – contiguous Memory allocation –paging – structure of the page table – Segmentation. Virtual – Memory management – Demand paying – Page Replacement. File system – File concept –Access Methods – Directory structure – Protection.

Unit 5
File Systems and I/O Management.
Implementing file systems –File system structure -File system implementation– Directory implementation – Allocation methods – Free space management –Efficiency and Performance – Recovery.

Unit wise Weight age of marks:

Unit	Essays(15M)	Short Answers(5M)	Very Short Answers(2M)
	Internal Choice		
I	1	1	1
II	1	1	1
III	1	1	1
IV	1	1	1
V	1	1	1

Prescribed Book:

Abraham Silberschatz, Peter Baer Galvin, Greg Gagne, Operating System Principles, Seventh Edition, Wiley India Edition (2007) Chapters (1 to 11)

Reference Books:

1. William Stallings, Operating Systems Internals and Design Principles, Fifth Edition, Pearson Education (2007).
2. Andrew S Tanenbaum, Modern Operating Systems, 2nd Edition, Pearson Education.
3. Archer Harris J, Operating Systems, Schaum outline series, Tata McGraw Hill(2006).
4. Davis and Rajkumar, Operating Systems A Systematic view, Sixth Edition, Pearson Education (2007).
5. Bhatt, Introduction to Operating Systems: Concepts and Practice, 2nd Edition, PHI (2008).
6. Stallings, Operating Systems - Internals and Design Principles, 5th Edition, PHI (2007).

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS), TENALI
SUBJECT: COMPUTER SCIENCE
PAPER VIII.I :OPERATING SYSTEMS CONCEPTS
III BCOM COMP VI SEMESTER MODEL PAPER

Time: 3Hrs **MaxMarks: 70M**

I. Answer any three of the following: 3X15=45M

1. What is a system call? Different types of system calls?
2. Discuss any two scheduling algorithms in detail.
3. What is a deadlock? Explain different dead lock prevention measures?
4. Explain the FIFO page replacement algorithm?
5. Explain about file system structure?

II. Answer any three of the following: 3X5=15M

6. Discuss about storage structure?
7. Define a process. Explain the different ways of scheduling Processes.
8. Write about monitors.
9. Explain segmentation.
10. Write about free space management.

III. Answer all the following: 5X2=10M

11. Mainframe systems?
12. Context switch?
13. Paging?
14. Segmentation?
15. File attributes?

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

PAPER VIII.II: FUNDAMENTALS OF INTERNET

III BCOM COMP VI SEMESTER SYLABUS

Unit - I

The Internet

The internet defined ;Internet history:1960's telecommunications,1970's telecommunications,1980's telecommunications, 1990's telecommunications, Internet Growth;

The way the internet works: Network Benfits, interconnected networks and communication,Physical components, network connections, Client – server model, IP addresses, Internet protocol version6(IPv6),Web page retrieval.

Unit - II

The World Wide Web

The web defined; Miscellaneous web browser details: Personal preferences; Book marks; Plug-ins and helper applications; Web browser comparisons; Web presentation outline, design, and management: Goal setting, outlining, navigation, designing and coding, revising.

Unit – III

Searching the World wide web

Directories,search engines and metasearch engines: Directories, Search engines, meta search engines, white pages; Search fundaments: search terminology, pattern matching queries, Boolean queries, search domain,search subjects; How does a search engine work:

Search engine components, user interface, searcher, evaluator, gatherer, indexer.

Unit - IV

Fundamentals of Electronic mail

E-mail advantages and disadvantages; Userids, passwords and e-mail addresses: userids,

Passwords, e-mail addresses, domain names, e-mail address determinations; Message components; Mailer features: compose, file and reply, bracketed text and include, forwarding; E-mail inner workings: mailer, mail server, and mail box, store and forward features, central mail school and IMAP, Bounce feature.

Unit - V

Browsing and Publishing

Browser bare bones: Browser window terminology, Menu bar, Tool bar, Hot buttons, Hyperlinks; coast-to-coast surfing: web terminology, uniform resource locator;

Telnet and FTP

Telnet and Remote login: telnet, remote login; file transfer: Graphical file transfer clients, text based file transfer clients, file compression, anonymous file transfer,archie.

Prescribed Book:

1. Fundamentals of the Internet and world wide web- Raymond Greenlaw, Ellen Hepp. Tata Mc Graw Hill.

Reference Book:

1. Using the internet- Barbara Kasser,PHI 4th Edition.

Unit wise weight age of marks:

Unit	Essays(15M) (any three)	Short Aswers(5M) (any three)	Very short Ansewers(2M)(all)
I	1	1	1
II	1	1	1
III	1	1	1
IV	1	1	1
V	1	1	1

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

PAPER VIII.II: FUNDAMENTALS OF INTERNET

III BCOM COMP VI SEMESTER MODEL PAPER

Time: 3Hrs **Max. Marks: 70 M**

I. Answer any three of the following: **3 X 15 = 45 M**

1. Explain the way the internet works?

2. Explain Web presentation outline, design and management?

3. How does a search engine works?

4. Explain advantages and disadvantages of E-mail?

5. Explain about browser bare bones?

II. Answer any three of the following: **3 X 5 =15 M**

6. Write about the internet growth?

7. What are plug-ins and helper applications?

8. Write few common search related terms?

9. Explain mailer features?

10. Explain telnet?

III. Answer all the following: **5 X 2 = 10 M**

11. Define the internet.

12. Define WWW.

13. What are the white pages?

14. Define mailbox.

15. Define surfing?

BCom (General) Syllabus

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

FUNDAMENTALS OF INTERNET

III BCOM Gen V SEMESTER SYLABUS

Unit - I

The Internet

The internet defined ;Internet history:1960's telecommunications,1970's telecommunications,1980's telecommunications, 1990's telecommunications, Internet Growth;

The way the internet works: Network Benfits, interconnected networks and communication,Physical components, network connections, Client – server model, IP addresses, Internet protocol version6(IPv6),Web page retrieval.

Unit - II

The World Wide Web

The web defined; Miscellaneous web browser details: Personal preferences; Book marks; Plug-ins and helper applications; Web browser comparisons; Web presentation outline, design, and management: Goal setting, outlining, navigation, designing and coding, revising.

Unit – III

Searching the World wide web

Directories,search engines and metasearch engines: Directories, Search engines, meta search engines, white pages; Search fundaments: search terminology, pattern matching queries, Boolean queries, search domain,search subjects; How does a search engine work:

Search engine components, user interface, searcher, evaluator, gatherer, indexer.

Unit - IV

Fundamentals of Electronic mail

E-mail advantages and disadvantages; Userids, passwords and e-mail addresses: userids,

Passwords, e-mail addresses, domain names, e-mail address determinations; Message components; Mailer features: compose, file and reply, bracketed text and include, forwarding; E-mail inner workings: mailer, mail server, and mail box, store and forward features, central mail school and IMAP, Bounce feature.

Unit - V

Browsing and Publishing

Browser bare bones: Browser window terminology, Menu bar, Tool bar, Hot buttons, Hyperlinks; coast-to-coast surfing: web terminology, uniform resource locator;

Telnet and FTP

Telnet and Remote login: telnet, remote login; file transfer: Graphical file transfer clients, text based file transfer clients, file compression, anonymous file transfer,archie.

Prescribed Book:

1. Fundamentals of the Internet and world wide web- Raymond Greenlaw, Ellen Hepp. Tata Mc Graw Hill.

Reference Book:

1. Using the internet- Barbara Kasser,PHI 4th Edition.

Unit wise weight age of marks:

Unit	Essays(15M) (any three)	Short Aswers(5M) (any three)	Very short Ansewers(2M)(all)
I	1	1	1
II	1	1	1
III	1	1	1
IV	1	1	1
V	1	1	1

J.M.J COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

FUNDAMENTALS OF INTERNET

III BCOM Gen V SEMESTER MODEL PAPER

Time: 3Hrs **Max. Marks: 70 M**

I. Answer any three of the following: **3 X 15 = 45 M**

1. Explain the way the internet works?

2. Explain Web presentation outline, design and management?

3. How does a search engine works?

4. Explain advantages and disadvantages of E-mail?

5. Explain about browser bare bones?

II. Answer any three of the following: **3 X 5 =15 M**

6. Write about the internet growth?

7. What are plug-ins and helper applications?

8. Write few common search related terms?

9. Explain mailer features?

10. Explain telnet?

III. Answer all the following: **5 X 2 = 10 M**

11. Define the internet.

12. Define WWW.

13. What are the white pages?

14. Define mailbox.

15. Define surfing?

SUBJECT: COMPUTER SCIENCE
ACCOUNTS BY TALLY
III BCOM GEN VI SEMESTER SYLLABUS

UNIT-I:

MANUAL ACCOUNTING

Need for Accounting
Types of Accounts
Rules of Debit and Credit
Accounting Principles
Journal & Ledger
Trial balance
Final accounts
Balance sheet & Adjustment entries

UNIT-II

Tally 5.4

An Introduction
Starting Tally
Main parts of Tally main screen
Creating a company and starting accounts
Selecting a company
Shutting a company
Working on active company
Gateway of Tally main menu accounting features
Inventory features

UNIT-III

Using Tally 5.4

Masters-accounts information
Current assets and liability
Fixed assets
Investments loans
Create a new group
Create new primary group master configurations
Accounts
Masters inventory masters

UNIT-IV:

Ledgers

Multiple Ledgers
Cost categories and cost centers
Voucher types
Inventory Information
Stock categories
Stock item
Unit of measures

UNIT-V

Practicing in Tally 5.4

Voucher entry
Inventory Vouchers
Viewing reports
Accounts reports
Profit and loss accounts
Stock summary
Trail balance
Statements of Accounts
Inventory books
Cash flow
Day book

Unit wise Weight age of marks:

Unit	Essays(15M) (Any three)	Short Answers(5M) (Any three)	Very Short Answers(2M) (All)
I	1	1	1
II	1	1	1
III	1	1	1
IV	1	1	1
V	1	1	1

Prescribed Text Books:

Accounts by Tally-Lalitha B. Singh
Vishnu B. Singh

Reference Books:

Implementing Tally 5.4-K.K Nadhani

JMJ COLLEGE FOR WOMEN (AUTONOMOUS): TENALI
SUBJECT: COMPUTER SCIENCE
ACCOUNTS BY TALLY
III BCOM GEN VI SEMESTER MODEL PAPER

Time: 3Hrs **MaxMarks: 70M**

I. Answer any three of the following **3X15=45M**

1. Explain Control Ledger groups?
2. Define Integrated and non-integrated accounts?
3. Explain Stock group and stock items?
4. Explain about concepts and conventions?
5. Explain sales tax and profit margins?

II. Answer any three of the following **3X5=15M**

6. Explain types of accounts with examples?
7. Differences between single entry system and double entry system?
8. Advantages and disadvantages of trial balance?
9. Explain Functions of Accounting?
10. What is the process to prepare final accounts?

III. Answer all the following **5X2=10M**

11. What is Accounting?
12. Difference between Journal and Ledger?
13. Define principle of double entry system?
14. Difference between tangible and intangible assets?
15. Explain tangible and intangible assets?

JMJ COLLEGE FOR WOMEN (AUTONOMOUS): TENALI
SUBJECT: COMPUTER SCIENCE
ACCOUNTS BY TALLY
III BCOM GEN LAB CYCLE

1. Demonstration on Company creation with Bank Reconciliation statement
2. Demonstration on Security control
3. Demonstration on Stock Journal
4. Demonstration on ales Invoice
5. Demonstration on company creation with two partners
6. Demonstration on company creation with security control
7. Demonstration on Stock categories
8. Demonstration on Viewing reports
9. Demonstration on Accounts reports
10. Demonstration on Profit and loss accounts
11. Demonstration on Stock summary
12. Demonstration on Trail balance
13. Demonstration on Statements of Accounts
14. Demonstration on Inventory books
15. Demonstration on Cash flow