



B

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(2009)

SHIVAJI UNIVERSITY, KOLHAPUR-416 004.

MAHARASHTRA

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शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४.

दुरध्वनी : (ईपीएबीएक्स) २६०९००० BOS. २६०९०९४

फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail : bos@unishivaji.ac.in

SU/BOS/ Comm/ 6645

Date :- 09-09-2014

The Principal,
Sadguru Gadage Maharaj College
Vidyanagar, Karad Dist : Satara

Subject:- Regarding Syllabi and Nature of Question Paper of B.Com. Part-III
(Sem-V & VI) Information Technology (Entire) under the Faculty
of Commerce.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the syllabi and nature of question paper of B.Com. Part-III (Sem-V & VI) Information Technology (Entire) under the Faculty of Commerce.

This syllabi shall be implemented from the academic year 2014-2015 (i.e. from June 2014) onwards and the same is enclosed herewith and also made available on university website www.unishivaji.ac.in.

You are therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Sd/-

Dy. Registrar

Encl: C.D. of the above mentioned syllabi

Copy to:-

- | | | |
|--|---|-------------------------|
| 1 Dean, Faculty of Commerce | } | For information |
| 2 Chairman, BOS in 1.Bus. Management | | |
| 2. Bus. Economics 3. Commerce 4. Accountancy | | |
| 3 Appointment Section | } | For information & n. a. |
| 4 B.Com. Section | | |
| 5 Affiliation Section (P.G.) | | |
| 6 Computer Centre | | |

SHIVAJI UNIVERSITY, KOLHAPUR.



B

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Syllabus For

Bachelor of Commerce

B.Com.Part-III

Information Technology (Entire)

Sem-V & Sem-VI

Introduced from June 2014 and Onwards

(Subject to the modifications will be made from time to time)

B.Com. Part-III (Information Technology) (Entire)

Course Structure

Paper No	Semester-V	Paper No	Semester-VI
501	Entrepreneurship Development	601	Modern Management Practices
502	System Analysis & Design	602	Introduction & Software Engineering
503	Enterprise Resource Planning (ERP) (Paper-I)	603	Enterprise Resource Planning (ERP) (Paper-II)
504	Application Development Tools (Paper-I)	604	Application Development Tools (Paper-II)
505	Web Technology (Paper-I)	605	Web Technology- (Paper-II)
506	Lab Course (based on paper-504 & 505)	606	Project (Based on IT Applications in Commerce)

B.Com. Part-III (Information Technology) (Entire)

Semester-V

Paper-501

Entrepreneurship Development

Objectives:-

- i) To impart theoretical knowledge of Entrepreneurship.
- ii) To develop Entrepreneurship qualities and skills.

Unit-I- Entrepreneur:

(15 Periods)

Concept-classification–Functions-Qualities of successful Entrepreneur– Concept of Intreprenuer and Netprenuer, challanges before entrepreneurs in modern Era.

Unit-II- Entrepreneurship:

(15 Periods)

Concept- Importance, Theories of Entrepreneurship (Josheph Schumpeter’s Innovation Theory, McClelland’s Theory of need of Achievement, Hegan’s Theory of status withdrawal) Entrepreneurship in service Industry- factors stimulating Entrepreneurship obstacles in Entrepreneurial growth.

Unit-III- Entrepreneurship Development:

(15 Periods)

Concept-objective-Process-Problems and measures in Entrepreneurship development– Institutional support for Entrepreneurship development Entrepreneurship Development Institute of India (EDI) Ahmadabad, National Institutes of Entrepreneurship and small Business Development (NIESBUD), New Delhi, National Institutes of small Industry Extension Training (NISJET), Hyderabad, small Industries Development organizations (SIDO), small Industry Development Bank of India (SIDBI), Technical consultancy organization (TCOs), District Industry centres(DIC).

Unit-IV- Project Management:

(15 Periods)

Concept of project-classification of project-stages of project management – Reasons for failure for project. Project for call centre, Retail stores, Hotel, Hospital, Dairy.

Reference Books

- 1- Dynamics of Entrepreneurship Development & Management –By Vasant Desai
- 2- Entrepreneurship Development in India –By C.B.Gupta and N.P.Srinivasan
- 3- Entrepreneurial Development –By S. S. Khanka
- 4- Entrepreneurial Development –By Godron E.and Natarajan K.
- 5- Udyojakata- By Prabhakar Deshmukh.
- 6- Project Preparation Appraisal, Implementation- By Prasanna Chandra.
- 7- Entrepreneurship Development –By S.C. Gupta & Arun Mittal.

B.Com. Part-III (Information Technology) (Entire)

Semester-V

Paper-502

System Analysis & Design

Unit – I : Introduction to System Analysis: (5 Periods)

Definition of system, elements and characteristics of system, Types of system, Role and responsibilities of system analyst, Skill of system analyst.

Unit – II: System Development Life Cycle (SDLC): (8 Periods)

Classical model all phases, water fall model (introductory).

Unit – III: System Analysis : (12 Periods)

Requirement Analysis (Anticipation, Investigation, specification), Feasibility study (Economic, operational, technical), Fact finding techniques (observations, record review, interviews, questionnaires, study of physical system). Analysis and Design tools: Data Flow Diagrams-(Guidelines, logical and physical), Decision Tables, . Decision Trees, Entity Relationship Diagrams- Concept of Entity, Attributes, Types of relation.

Unit-IV: System Design, implementation and testing: (15 Periods)

Input and Output Design and their types, Normalization (First, Second, Third), Database Design (File structure, File Organization, Important types of file, Database/ file operation), data dictionary, System Implementation: Hardware and software selection, manual implementation, online implementation, real-time implementation, construction of system (Traditional approach, Incremental approach), Software Testing: (White Box, Black Box, Alpha, Beta), Change Over, Quality Assurance. Case studies: College Admission system, Inventory Management System, Library system.

Reference Books

1. System Analysis & Design- AWAD E.H.
2. System Analysis and Design – V.K. Jain (Dreamtech Pub.)
3. System Analysis & Design- Parthsarthy/ Khalkar.
4. Basic System Analysis And Design-Alan Denial & Don Yeats.
5. System Analysis & Design -Edwards Perry.

B.Com. Part-III (Information Technology) (Entire)

Semester-V

Paper No. 503

Enterprise Resource Planning

Objective:

To learn different ERP technologies.

Unit -1: ERP: An Overview (15 Periods)

- 1.1 Introduction
- 1.2 Evolution
- 1.3 Enterprise- An Overview
- 1.4 Role of Enterprise
- 1.5 What is ERP?
- 1.6 Reasons for growth of ERP.
- 1.7 Advantages of ERP.
- 1.8 Problem areas in ERP implementations.
- 1.9 Benefits of ERP.

Unit -2: ERP and Related Technologies (15 Periods)

- 2.1 Introduction
- 2.2 Integrated Management Information
- 2.3 Business Modelling
- 2.4 Integrated Data model.
- 2.5 Business Process Reengineering(BPR)
- 2.6 Data Warehousing
- 2.7 Management Information System(MIS)
- 2.8 Decision Support System(DSS)
- 2.9 Executive Information Systems(EIS)
- 2.10 Data Mining
- 2.11 Supply Chain Management

Unit – 3: On-Line Analytical Processing(OLAP)**(15 Periods)**

- 3.1 Introduction to OLAP
- 3.2 Rules of OLAP
- 3.3 OLAP and data warehousing
- 3.4 Uses of OLAP
 - 3.4.1 Multidimensional views
 - 3.4.2 Complex Calculation
 - 3.4.3 Time Intelligence
- 3.5 OLAP benefits
- 3.6 Supply chain management – Introduction

Unit -4 : ERP Implementation**(15 Periods)**

- 4.1 Introduction
- 4.2 Pre-evaluation Screening
- 4.3 Package Evaluation
- 4.4 Project Planning Phase
- 4.5 Gap Analysis
- 4.6 Reengineering
- 4.7 Configuration
- 4.8 Implementation Team Training.
- 4.9 Testing
- 4.10 Going Live
- 4.11 End-User Training
- 4.12 Post-Implementation

Reference Books:

1. Enterprise Resource Planning by Alexis Leon(Tata McGraw-Hill)
2. ERP Demystified by Alexis Leon(Tata McGraw-Hill)
3. ERP in simple steps by Kogent Solution, Wiley- Dreamtech Publications

B.Com. Part-III (Information Technology) (Entire)**Semester –V****Paper No. 504****Application Development Tools Paper-I****Unit -I: Introduction to Visual Basic.NET****(15 Periods)**

.NET framework , CLR,CTS,CLS,JIT,FCL, The role of Microsoft intermediate Language and Metadata, Namespace. Evolution of Dot Net framework , VB IDE. Variable : Declaration, Initialization, constant: Declaration, Initialization, data type, operators: Relational, Logical, Arithmetic, Assignment , Bitwise shift operators.

Unit -II: Activex Controls**(20 Periods)**

Forms, text box, labels, button, radio button, check boxes, list box and combo box, Timer Date TimePicker, group box, rich text, picture Box

Unit -III: Control Statements: Branching and Looping**(15 Periods)**

Branching Statements: If-Then Statement(s), Select case Statements, Looping Statements: For-Next, for each, While—End While, Do-----loop while, Do-----loop until. Unconditional statement: Exit statement, and continue statement.

Unit -IV: Arrays**(10 Periods)**

Working with Arrays, Redim and Preserve Statement, Rectangular array, Jagged Array, Array Class.

Reference Books:

- 1.Visual Basic NET Black Book –Steven Hoizner
- 2.Visual Basic NET Programming Bible-Bill Evjen
- 3.Beginning VB.NET-Wrox publication
- 4.Visual Basic NET-Rajendra Salokhe

B.Com. Part-III (Information Technology) (Entire)

Semester –V

Paper No 505

Web Technology Part-I

Unit1:Introduction to Internet

(15 Periods)

- 1.1 Introduction to internet
- 1.2 Applications of internet
- 1.3 Concept of WWW
- 1.4 Domain
- 1.5 Web browsers (internet Explorer,firefox,qxra)
- 1.6 Surfing and searching
- 1.7 Search engines(Google ,msn,yahoo)
- 1.8 E-mail & chatting

Unit2:Basic of HTML

(15 Periods)

- 2.1 Introduction
- 2.2 Features of HTML
- 2.3 Limitations
- 2.4 Tags and Attributes
- 2.5 Heading and formatting tags
- 2.6 Paragraph,font,tag
- 2.7 List tag-Ordered,unordered and definition
- 2.8 Singular and paired tags-
,<HR>,<MARQUE>
- 2.9 Hyperlink and Image tags

Unit3:Table and Frame tags

(15 Periods)

- 3.1 Table tags
- 3.2 Aligning entire table
- 3.3 Alignment of row, cell and content
- 3.4 Table attributes
- 3.5 Setting of background colour and width, adding border, Spacing and cell padding, rowspan, colspan
- 3.6 Insertion of Audio and Video files using BGSOUND and EMBED.
- 3.7 Frames and its tags.
- 3.8 Frameset.
- 3.9 Targeting named frames.
- 3.10 Creating floating frames.

Unit 4: Forms and Basics of CSS.

(15 Periods)

- 4.1 Creating forms.
- 4.2 Form tag.
- 4.3 Form attributes.
- 4.4 INPUT tag.
- 4.5 Drop down and list boxes.
- 4.6 TextArea, Password.
- 4.7 Button and Action button-SUBMIT, RESET.
- 4.8 Radio Button and Checkbox.
- 4.9 Introduction to CSS.
- 4.10 Inline, internal and external Style Sheets.
- 4.11 CSS selector elements.
- 4.12 Cross browser Texting.

Reference Books:-

1. HTML, Javascript, DHTML &PHP by Ivan Bayross- (BPB Publication)
2. HTML Black Book by Steven Holzner-(DreamTech Publication)
3. Web Technologies Black Book By Kogent Learning Solution(Dreamtech)

B.Com. Part-III (Information Technology) (Entire)

Semester –V

Paper No. 506

Lab Course Based on Paper 504 and 505

Lab course on Application Development Tools(Paper-I)(Paper No-504)

1. Programs based on operators
2. Programs based on branching statements
3. Programs based on .NET controls
4. Programs based on arrays.

Lab course on Web Technology (Paper-I)(Paper No-505)

1. Write a HTML Program to print "Welcome to HTML".
2. Write a HTML program using text formatting tags like Bold,Italic, Underline.
3. Write a HTML program to display sentence "This is Heading Tag"using different heading tags.
4. Write a HTML Program by using paragraph tag and use link tag.
5. Write a HTML program for procedure to run MS-Word using sequential/ordered list tag.
6. Write a HTML Program for list of state names using unordered list tag.
7. Write a HTML Program by nested list to print the list of birds, animals and flowers.
8. Write a HTML Program to display the Image.
9. Write a HTML Program to create a Simple table.
10. Write a HTML Program to create a timetable format.
11. Write a HTML Program to create a table using cell spacing and cell padding.
12. Write a HTML Program to display the nested table structure.
13. Write a Simple HTML Program by using Frameset tag.

B.Com. Part-III (Information Technology) (Entire)

Semester-VI

Paper-601

Modern Management Practices

Objective:-

1. To make students familiar with the modern management practices.
2. To expose the students to importance and applicability of various modern management practices.

Unit-I- Introduction to modern management practices:

(15 Periods)

Concept and characteristics of modern management –Importance of modern management in changing environment .

Unit-II- Quality Management and Standards:

(15 Periods)

Concept of quality, meaning of TQM, Elements of T.Q.M, Six sigma-meaning, characteristics and importance, levels of six sigma-Benchmarking – concept, types, limits- ISO-9000-meaning & importance of ISO quality standards, 20 elements of ISO-9000.

Unit-III- Risk Management:

(15 Periods)

Introduction: concept and types of risks – Risk management, concept, objectives- Risk Management Information system – Enterprise Risk management.

Unit-IV- Legal Aspects of Business

(15 Periods)

- A) Law of contract 1872 –Definition of contract, essentials of valid contract, Types of contract, performance of contract, Discharge of contract and Break of contract.
- B) Information Technology Act 2000 – Introduction, Internet, e-commerce, digital signature cyber crimes and legal provisions.
- C) The company Law 1956: Definition of company, types of company, Incorporation of company.

Reference Books:-

1. The Practice of Management – Peter Drucker
2. Organization and management – Dr.C.B.Gupta
3. Business organization and management – M.C.Shukla
4. Business Policy-Dr.Azhar Kazmi
5. Insurance and Risk Management –Dr.P.K.Gupta, Himalaya Publishers.
6. Mercantile law- N.D.Kapoor (Sultan Chand Publications)
7. Corporate Law- Bharat Law House, New Delhi
8. Business Law-M.C. Kuchal, Vikas Publisher Houses, New Delhi
9. Bare Act-Cyber Act

B.Com. Part-III (Information Technology) (Entire)

Semester -VI

Paper No. 602

Software Engineering

UNIT-I Software Engineering:

(15 Periods)

Definition and paradigms, A generic view of software engineering, Process Models

UNIT-II Requirements Analysis:

(15 Periods)

Statement of system scope, isolation of top level processes and entities and their allocation to physical elements, refinement and review. Analyzing a problem, creating a software specification document, review for correctness, consistency and completeness.

UNIT-III Software Design & Testing:

(15 Periods)

System Design, Problem Partitioning, Top-Down and Bottom-Up design; Software design:- Abstraction - Modularity – Software Architecture - Effective modular design -Cohesion and Coupling Functional vs. Object- Oriented approach. Testing : -Levels of Testing, Integration Testing, and Structures testing - Black Box testing and white box testing, Unit testing, system testing, Validation and system testing Software quality, Review of conformance to software requirements and quality.

UNIT-IV Software Implementation & Maintenance: (15 Periods)

Software Implementation, Relationship between design and implementation, Implementation issues and programming support environment, Maintenance as part of software evaluation, reasons for maintenance, types of maintenance (Perceptive, adoptive, corrective), Software Configuration Management -Concept, Baseline, SCM Process, version control and change management.

Reference Books:-

1. K.K.Aggarwal & Yogesh Singh "Software engineering", 2nd Ed., New Age International 2005.
2. I.Sommerville, "Software Engineering", Addison Wesley, 2002.
3. James Peter, W. Pedrycz, "Software Engineering: An Engineering Approach" John Wiley & Sons.
- 4 Software Engineering by Roger S Pressman
5. Software Engineering Jalote Wiley - India

B.Com. Part-III (Information Technology) (Entire)**Semester -VI****Paper No. 603****Enterprise Resource Planning****Unit – 1: Business Modules (20 Periods)**

- 1.1 Introduction
- 1.2 Finance
- 1.3 Manufacturing and Production Planning
- 1.4 Human Resource
- 1.5 Material Management
- 1.6 Plant Maintenance
- 1.7 Quality Management
- 1.8 Sells and Distribution

Unit – 2: ERP Market (15 Periods)

- 2.1 Introduction
- 2.2 ERP market Place.
- 2.3 SAP AG
- 2.4 BaaN.
- 2.5 PeopleSoft
- 2.6 Oracle

Unit – 3: ERP- Present and Future (10 Periods)

- 3.1 Introduction
- 3.2 Turbo charge the ERP system
- 3.3 Enterprise Integration Applications(EIA)
- 3.4 ERP and E-commerce
- 3.5 ERP and Internet
- 3.6 Future directions in ERP

Unit – 4: ERP Case studies (15 Periods)

- 4.1 SAP/R3.
- 4.2 Oracle at Cisco System
- 4.3 College ERP
- 4.4 Dairy ERP
- 4.5 Sugar Factory ERP

Reference Books:

1. Enterprise Resource Planning by Alexis Leon(Tata McGraw-Hill)
2. ERP Demystified by Alexis Leon(Tata McGraw-Hill)
3. ERP in simple steps by Kogent Solution, Wiley- Dreamtech Publications
4. User Manual – SAP R/3.
5. User Manual – Oracle.

B.Com. Part-III (Information Technology) (Entire)

Semester -VI

Paper No. 604

Application Development Tools Paper-II

Unit -I: Working with Classes

(15 Periods)

Console Based Programming: Introduction to classes, objects, Properties and methods, Constructor and its types, Inheritance-single, multiple, multilevel inheritance. Polymorphism-methods overloading, overriding.

Unit -II: Exception Handling

(15 Periods)

Errors-Types of errors, structured and unstructured exceptions. Unstructured Exception-on error Goto, Resume, Resume Line, Resume next. Structured Exception: Try----Catch----EndTry, Try---Catch----Finally ---End Try, Throw keyword. Tracing Errors: Breakpoints, watch window, quick watch window, autos.

Unit -III: Functions

(15 Periods)

String Functions: Manipulation of string, functions for comparison, concatenation, copy, replace, substring, length, Date functions: Dateadd(). DateDiff(), DatePart(), Datevalue(), Day(), month(), monthname(), year(),Arithmetic functions.

Unit -IV: ADO.NET

(15 Periods)

Introduction to ADO NET, Components and Features Objects-Connection, Dataadapter, dataset, datatable, datarow, datacolumn, datareader, server explorer, binding controls to database, ADO Net Programming.

Reference Books:

1. Visual Basic NET Black Book –Steven Holzner
2. Visual Basic NET Programming Bible-Bill Evjen
3. Beginning VB.NET-Wrox publication
4. Visual Basic NET-Rajendra Salokhe

B.Com. Part-III (Information Technology) (Entire)

Semester -VI

Paper No. 605

Web Technology (Paper – II)

Unit 1 Introduction to Javascript

(15 Periods)

- 1.1 Introduction
- 1.2 Difference in Client Side & Server Side Scripting
- 1.3 Features of Javascript
- 1.4 Java Script Keywords
- 1.5 Data Types
- 1.6 Operators

Unit 2 Javascript Branching and Looping

(15 Periods)

- 2.1 Branching statement (if, if_else, Nested_if)
- 2.2 Looping : for, while, do...while
- 2.3 Object in Java
- 2.4 Events and events Handlers
- 2.5 Dialog Boxes
- 2.6 Built-in functions

Unit 3 : Introduction to server-Side Scripting

(15 Periods)

- 3.1 Introduction
- 3.2 ASP: Advantages and Limitations
- 3.3 Server setup of ASP (IIS)
- 3.4 ASP Data types in VB Script
- 3.5 Operators and Keywords in VB Script

Unit 4:- ASP: Branching & Looping**(15 Periods)**

- 4.1 Branching statements (if, if..Else, nested...If)
- 4.2 Looping: for, while,do.. While
- 4.3 Objects in ASP
- 4.4 Events in ASP
- 4.5 GET & POST Method
- 4.6 Built-in functions

Reference Books:-

- 1. HTML, Javascript, DHTML & PHP by Ivan Bayross-(BPB Publication)
- 2. HTML Black Book by Steven Holzner(DreamTech Publication)
- 3. Web Technologies Black Book By Kogent Learning Solution(Dreamtech)

B.Com. Part-III (Information Technology) (Entire)**Semester -VI****Paper No. 606****Project (Based on IT Applications in Commerce)**

A group of maximum four students prepare a major software project under the guidance of internal teacher. Project report will be evaluated by the panel of two external teacher and there will be viva-voce examination for **50** marks.(Documentation – 10 Marks, Online Presentation-- 20 Marks, Viva-Voce -- 20 Marks.) The panel for viva-voce examination will be appointed by university. The student should prepare the project report on the work carried out by him.

Guidelines for Project:

Number of Copies: The student should submit two Hard-bound copies of the Project Report.

Acceptance/Rejection of Project Report:

The student must submit an outline of the project(Synopsis) report to the college for approval. The college holds the right to accept the project or suggest modifications for resubmission. Only on acceptance of draft project report, the student should make the final copies.

Format of the Project Report:

The student must adhere strictly to the following format for the submission of the Project Report.

a. Paper:

The Report shall be typed on white paper, A4 size, for the final submission. The Report to be submitted to the **must be original** and subsequent copies may be photocopied on any paper.

b. Typing:

The typing shall be of standard letter size, 1.5 spaced and on one side of the paper only. (Normal text should have Arial Font size 11 or 12. Headings can have bigger size)

c. Margins:

The typing must be done in the following margins:

Left -----1.5 inch, Right ----- 1 inch

Top ----- 1 inch, Bottom ----- 1 inch

d. Front Cover:

The front cover should contain the following details:

TOP : The title in block capitals of 6mm to 15mm letters.

CENTRE: Full name in block capitals of 6mm to 10mm letters.

BOTTOM: Name of the University, Course, Year of submission -all in block capitals of 6mm to 10mm letters on separate lines with proper spacing and centering.

f. Blank Sheets:

At the beginning and end of the report, two white black bound papers should be provided, one for the purpose of binding and other to be left blank.

g. Documentation Format

- a) Cover Page
 - b) Institute/College Recommendation
 - c) Guide Certificate
 - d) Declaration
 - e) Acknowledgement
 - f) Index
 - g) **Chapter Scheme**
 - 1) Introduction to Project
 - Introduction
 - Existing System
 - Need and scope of Computer System
 - Organization Profile
 - 2) Proposed System
 - Objectives
 - Requirement Engg.
 - Requirement Gathering
 - SRS
 - 3) System Analysis
 - System Diagram
 - DFD
 - ERD
 - UML(if applicable)
 - 4) System Design
 - Database Design
 - Input Design
 - Output Design
 - 5) Implementation
 - System Requirement
 - Hardware
 - Software
 - Installation process
 - User Guideline
 - 6) Output(with valid Data)
(Minimum 4 reports)
 - 7) Conclusion and Suggestions
 - Conclusion
 - Limitations
 - Suggestion
 - 8) References:-
 - i) Books:-
 - ii) Journals:-
 - iii) Periodicals and Newspapers:-
 - iv) Web
 - v)Questioner/Schedule(if used)
 - vi)Source code(Include Main Logic source code)
-

****Nature of Question Paper**

Time:2 Hours	Total Marks-50
Instructions:-	
1. All question Carry equal marks 2. Attempt any Five questions out of Seven.	
Q.1 Write Short Answers (Any two out of Three)	10 marks
Q.2 Long Answers	10 marks
Q.3 Long Answers	10 marks
Q.4 Long Answers	10 marks
Q.5 Long Answers	10 marks
Q.6 Long Answers	10 marks
Q.7 Write Short Notes (Any two out of Three)	10 marks

Note: The nature of question paper is uniform for B.Com.-(IT) Part-III (Sem V and Sem VI)