

Tilak Maharashtra University
Bachelor of Computer Applications (BCA)
Third Year

Examination 1

BCA 521- VB.NET

- 1- **.Net Fundamentals:** Introduction to .NET Framework, Distributed Architecture and .NET, .NET Common Language Runtime, Introduction to XML, SOAP protocols.
- 2- **VB.Net Introduction to VB.Net with overview of .NET Framework:** VB.NET Vs VB 6.0, what can be done with VB.NET, Windows application, Windows Controls, ASP.NET Projects, Web Services, .NET Components
- 3- **VB.NET Language Essentials:** Data Types, Operators, Control Statements, arrays, jagged array, Property.
- 4- **Object Oriented Programming Overview:** Object Oriented Programming Concept, Classes & Objects, Type by Val, Type byRef, Inheritance, Abstract Classes & Interfaces.
- 5- **Developing Windows Applications:** Win Forms, GUI Controls – Properties & Methods, MDI Forms, Inheritance Picker, Message Handling, Common Dialog Boxes, Common Controls.

Examination 2

- 6- **Structured error Handling:** Exception – try – catch – finally – End try block, Nested Exception, Throwing Exception, User defined exception
- 7- **Com object, interoperability:** Com Model in .Net framework, Interoperability with VB-6.0 Com objects.
- 8- **File Stream:** Memory Stream, File Stream, Buffered Stream, Binary Readers, writers, Stream reader writers,
- 9- Collection, Array list, hash table, sorted list and examples of stack and queue.
- 10- **ADO.NET:** Database Connectivity.(Take SQL Server as database) Connected , disconnected architecture, properties of dataset, reader, adapter etc.

BCA -522 ORACLE

Examination 1

1. Introduction to RDBMS

- What is RDBMS
- Difference between DBMS & RDBMS

2. SQL (Structured Query Language)

- Subdivisions of SQL
DDL, DML ,DCL with all commands
- Data Types
- The CREATE TABLE Command,
Constraints in CREATE TABLE
- Inserting Data into tables
- Viewing Data in the tables (SELECT with all options)
- Sorting data in a table (Order By)
- Group By, Having clause
- Delete operations
- Updating the contents of the table
- Modifying structure of a table
- Renaming table, Truncating tables, Destroying table
- Data Constraints (Primary Key, Foreign Key, Unique Key, Check, Default, NOT NULL)
- Computations done on Table data (Arithmetic Operators, logical operators, range searching, pattern matching(LIKE)
- Functions (Aggregate functions, Numeric Functions, Character Function, Date function, Conversion function)
- Sub queries
- Joins (Simple Join, inner join, outer join, cross join)

3. Oracle Objects

- Views
- Sequences
- Index

Examination 2

4. PL/SQL

- Introduction to PL/SQL
- Architecture of PL/SQL
- Data types
- PL/SQL blocks (attribute- %TYPE, %ROWTYPE)
- Operators, functions, comparisons, numeric, character, date
- Control Statements
 1. Conditional control (if statement)
 2. Interactive control (Loops)
 3. Sequential Control (GOTO statement)

5. Error Handling (Exception handling)

Pre-defined,

User defined

6. Functions, Procedures

7. Cursors

- Definition
- Types of cursors (Implicit, explicit)

8. Triggers

9. Packages

BCA-523 Enterprise Resource And Planning (ERP)

Examination 1

1.ERP :

An Overview, Enterprise – an overview, Benefits of ERP, ERP and Related Technologies, Business Process Reengineering (BPR), Data Warehousing, Data Mining, On- line Analytical Processing (OLAP), Supply Chain Management.

2.ERP IMPLEMENTATION:

ERP Implementation lifecycle, Implementation Methodology, ERP implementation – The hidden cost, Organizing the Implementation, Vendors, Consultants and Users, Contracts with Vendors, Consultants and Employees, Project Management and Monitoring, After ERP implementation.

Examination 2

3.THE BUSINESS MODULES:

Business Modules in an ERP packages, Finance, Manufacturing, Human Resource, Plant Maintenance, Materials Management, Quality Management, Sales and Distribution.

4.ERP – PRESENT AND FUTURE

Turbo Charge the ERP System, Enterprise Integration, Application (EIA), ERP and E- Commerce, ERP and Internet, Future Directions in ERP.

BCA-524 Presentation Skill

Unit 1- Speaking Skills (Practical)

1. Conversations
2. Group Discussion
3. Public Speaking

Unit 2- Listening Skills (Practical)

1. Using Language Lab to understand Business English

Unit 3- Writing Skills

1. Notices
2. Agenda
3. Minutes
4. Business Letters
5. Manuals
6. Teaching Proposals

Unit 4- Communication

1. Verbal & Non- Verbal
2. Body Language

Unit 5- Elements of Creative Writing

1. Figures of Speech
2. Idioms
3. Phrasal Verbs

Unit 6- Advertising

1. Graphic Aids
2. Copy editing

Unit 7- Presentation (Practical)

1. Using Audio- Visual Aids
2. Story telling
3. Poetry Recitation

Elective - II

BCA-525 Principles and Practice of Management- II(PPM-II)

Examination 1

1. **Staffing:**

- a. Meaning , definitions
- b. Importance
- c. Recruitment and selection
- d. Training and development
- e. Performance appraisal

2. **Directing:**

- a. Meaning , definitions
- b. Principles of directing

3. **Communication:**

- a. Meaning and definitions
- b. Elements
- c. Process
- d. Importance
- e. Types
- f. Principles

4. **Motivation:**

- a. Meaning and definitions
- b. Objectives
- c. Theories of motivation
 - a. Maslow's theory of hierarchy of needs
 - b. Herzberg's two factor theory
 - c. McClelland's theory
 - d. Expectancy theory
 - e. Equity theory
 - f. Reinforcement theory
- d. Special motivational techniques

Examination 2

5. **Leadership:**

- a. Meaning and definitions
- b. Features
- c. Importance

- d. Theories
 - a. Great man
 - b. Trait
 - c. Situational
 - d. Behavioral
 - e. Followers
 - f. Managerial grid
 - g. Path goal
- e. Styles of leadership
 - a. Autocratic
 - b. Participative
 - c. Laissez faire
- f. Qualities of a leader

6. Controlling :

- a. Meaning and definitions
- b. Features
- c. Control process
- d. Control techniques
 - a. Traditional
 - b. Modern

7. Recent trends in management:

- a. Social responsibility of mgmt
- b. Stress mgmt
- c. Total quality mgmt.
- d. Disaster mgmt.
- e. Event mgmt.
- f. M.B.O. (management by objectives)

BCA-528 Cyber Security Lvel -II

CHAPTER No. NAME

Examination 1

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|-----------|------------------------------------|
| CHAPTER 1 | I.T. ACT 2000 & ITS AMENDMENTS |
| CHAPTER 2 | CASE STUDIES FOR SECURITY ANALYSIS |
| CHAPTER 3 | PC AUDITING & FACING MALWARES |
| CHAPTER 4 | LINUX ESSENTIALS |

Examination 2

| | |
|-----------|---|
| CHAPTER 5 | WEB VULNERABILITIES & ATTACKS |
| CHAPTER 6 | FINANCIAL FRAUDS |
| CHAPTER 7 | TECHNICAL ATTACKS ON WIRELESS & DATABASES |
| CHAPTER 8 | PENETRATION TESTING |

BCA-526 Practical VB.Net

BCA-527 Practical Oracle

O/W. No. 11/

Date- 20th August 2011.

To,
The Center Incharge

Subject:- Regarding 'Presentation Skill' a subject for 5th Semester.

Sir/ Madam,

We have sent you course structure of F.Y. and S.Y. BCA for the academic year 2010-2011. You must have gone through it. You are aware that we are conducting online exams for BCA Distance Programme.

Please note that we will not be conducting Online exams for the subject Presentation Skills for 5th semester. We are giving guidelines for conducting the exams for the same subject. Following are the details

- A subjective exam of 40 marks will be conducted at respective centers along with other subjective exams.
- Answer sheets should be evaluated on respective center and should be sent to vidyapeeth along with marklist within given period. 60 marks are allotted for the practical work of the same subject. Following practical work should be completed by the students.

| | |
|------------------|------------|
| Home Assignments | - 20 Marks |
| Presentation | - 20 Marks |
| Viva Voce | - 20 Marks |

Home Assignments will be provided by Vidyapeeth.

For presentation teacher should give certain topics to students and ask to prepare a paper and to present it before faculties and students.

For Viva a center should appoint qualified external examiners (M.A.) and conduct Viva based on same subject i.e. Presentation Skill.

Center should send marks out of 60 for above mentioned activities within given period.

Please do the needful

Yours

Programme Co-ordinator