

**PGIIS-028-B-21**  
**P.G.D.C.P. & S.A. II Semester Degree Examination**  
**COMPUTER SCIENCE**  
**Programming on VB.Net**  
**Paper : SCT - 2.1**

**Time : 3 Hours****Maximum Marks : 80****Instructions to Candidates:**Answer any **five** questions.

- I.** a) Write the features of VB.Net. (8)  
b) Explain the term CLR in context VB.Net. (8)
- II.** a) Explain the following terms (8)  
i) Menubar  
ii) Toolbar  
iii) Solution Explorer  
iv) Toolbox  
v) Properties window form.  
b) What is event - driven programming? Explain with example. (8)
- III.** a) Define Method? Explain different methods of form. (8)  
b) What is Variable? List the rules of Naming variable with example. (8)
- IV.** a) Explain If...Else...Endif with flowchart. (8)  
b) What are the differences between MsgBox and Inputbox? (8)
- V.** a) What is looping? Explain any one with example. (8)  
b) Explain the following terms (8)  
i) Textbox  
ii) Label  
iii) Button  
iv) Radiobutton

- v) Checkbox.
  - VI.** a) Write a program to find factorial of a given number. (8)
  - b) Write a short note on (8)
    - i) Open file dialog
    - ii) Save file dialog
    - iii) Color dialog
    - iv) Print dialog.
  - VII.** a) Explain the following Access specifiers (8)
    - i) Public
    - ii) Private
    - iii) Protected.
  - b) Write a program to find total and average of six subject marks. (8)
  - VIII.** a) Write a short note on COM+. (8)
  - b) Write a program to find the Area of rectangle using the class and object. (8)
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**PGIIS-024-B-21**  
**P.G.D.C.A. II Semester Degree Examination**  
**COMPUTER SCIENCE**  
**Programming in VB.NET**  
**Paper : SCT - 2.1**

**Time : 3 Hours****Maximum Marks : 80****Instructions to Candidates:**Answer any **five** questions.**All** questions carry **equal** marks.

1. a) Describe the services provided by IDE of VB.NET. (8)  
b) What are the main objectives of VB.NET framework? (8)
2. a) What is the role of assemblies on CLR? Explain. (8)  
b) How many types of Projects are there in VB.NET? Explain. (8)
3. a) What do you mean by scope and life time of a variable? (8)  
b) How many types of arrays used in VB.NET? Explain. (8)
4. a) What do you mean by Subroutine and functions? What type of functions are used in VB.NET? (8)  
b) Write and Explain the syntax of looping statements with example? (8)
5. a) Explain content menu and access menu with example. (8)  
b) Explain font dialog, colour dialog and Print dialog. (8)
6. a) Explain Tree view, list view, Timer view and Panel with examples. (8)  
b) Discuss GUI Programming with Windows form. (8)
7. a) Define the term OOPS and Write its all properties. (8)  
b) What do you meant by methods and events? Explain with example. (8)
8. a) Explain Private , Public and Protected Specifiers in .NET? (8)  
b) What is data binding? Explain the different ways to use data binding in VB.NET application. (8)

**PGIIS-022-B-21**  
**P.G.D.C.A. II Semester Degree Examination**  
**COMPUTER SCIENCE**  
**Software Engineering**  
**Paper : HCT - 2.1**

**Time : 3 Hours****Maximum Marks : 80****Instructions to Candidates:**Answer any **FIVE** questions.**All** questions carry **equal** marks.

1. a) What is software and software engineering? Explain. (8)  
b) Explain software process in software engineering. (8)
  2. a) Explain Waterfall model with diagram. (8)  
b) What is Requirement engineering with detail? (8)
  3. a) What are the objectives of design of Software engineering? (8)  
b) Explain relationship between cohesion and coupling. (8)
  4. a) Write a note on Software testing Strategies. (8)  
b) Describe object oriented design in software engineering. (8)
  5. a) What are the conventional applications of testing? (8)  
b) Discuss flow - graph notations. (8)
  6. a) Explain control - structure testing in software engineering. (8)  
b) Write a note on black - box testing. (8)
  7. a) Web application testing and security. (8)  
b) Describe testing characteristics. (8)
  8. a) Explain Software estimation in detail. (8)  
b) Define project and explain the scope of project planning. (8)
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**PGIIS-026-B-21**  
**P.G.D.C.P. & S.A. II Semester Degree Examination**  
**COMPUTER SCIENCE**  
**Software Engineering**  
**Paper : HCT - 2.1**

**Time : 3 Hours****Maximum Marks : 80****Instructions to Candidates:**

- 1) **Answer any five questions.**
- 2) **All question carry equal marks.**

1. a) Explain software process. (8)  
b) Illustrate waterfall model. (8)
2. a) Illustrate evolutionary model. (8)  
b) Explain the phases of Requirement Engineering. (8)
3. a) Differentiate between verification and validation. (8)  
b) What is coupling? Explain its types. (8)
4. a) What is DFD? Write the notation of DFD. (8)  
b) Draw an usecase diagram for ATM system. (8)
5. a) Explain the concepts of Functional oriented design. (8)  
b) Write a note on Test characteristics. (8)
6. a) What is system testing? Explain its types. (8)  
b) Explain cyclomatic complexity. (8)
7. a) Explain testing concepts for web Application. (8)  
b) Write a note on Equivalence partitioning. (8)
8. Write note on  
a) Flow Graph. (8)  
b) Integration Testing. (8)

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**PGIIS-025-B-21**  
**P.G.D.C.A. II Semester Degree Examination**  
**COMPUTER SCIENCE**  
**Internet & its Applications**  
**Paper - OET - 2.1**

**Time : 3 Hours**

**Maximum Marks : 80**

***Instructions to Candidates:***

***Answer any FIVE Questions.***

1. a) Explain Intranet and Internet. (8)  
b) Explain procedure for sending and receiving E-mail messages. (8)
2. a) Write a short notes on  
i) Web browser.  
ii) HTML. (8)  
b) Explain the digital cash system. (8)
3. a) Briefly explain the history of Internet. (8)  
b) Write a short note on FTP. (8)
4. a) Explain World Wide Web. (8)  
b) Explain the way of creating ordered and unordered list in HTML. (8)
5. a) Write the steps to create E-mail Id. (8)  
b) Write a HTML program to create student information table. (8)
6. a) Write a short note on digital cash & E - wallet. (8)  
b) Explain the terms Javascript and .NET. (8)
7. a) Write a program to insert image in HTML document. (8)  
b) Explain different types of Headers in HTML document. (8)
8. a) Write a short note on FTP. (8)  
b) Explain the term consumer tracking. (8)



**PGIIS-023-B-21**  
**P.G.D.C.A. II Semester Examination**  
**COMPUTER SCIENCE**  
**Web Technologies**  
**Paper : HCT - 2.2**

**Time : 3 Hours****Maximum Marks : 80***Instructions to Candidates:**Answer any FIVE questions.**All questions carry Equal marks.*

1. a) Define HTML? Explain base HTML document Structure. (8)  
b) Define Web browser? Write the types of Web browsers. (8)
2. a) Describe the design Principles of a Website? (8)  
b) Explain planning Site navigation of a Website? (8)
3. a) What is bandwidth in HTML? How bandwidth affects Website Performance? (8)  
b) Define CSS? Write the properties of cascading style - sheets (CSS)? (8)
4. a) Write the applications of CSS. (8)  
b) What is common gateway interface? Write its advantages and disadvantages. (8)
5. a) Explain active web documents of Java technology? (8)  
b) How do you create source file in Javascript? (8)
6. a) Explain Document object model (DOM) in Javascript? (8)  
b) Discuss the data types used in Javascript? (8)
7. a) Describe various types of operators used in Java script. (8)  
b) Write the functions of applets used in Javascript. (8)
8. a) Explain Schema element in XML? What are the Syntax rules for XML? (8)  
b) Discuss XML document structure. (8)

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**PGIIS-027-B-21**  
**P.G.D.C.P. & S.A. II Semester Degree Examination**  
**COMPUTER SCIENCE**  
**Object Oriented Analysis and Design Using UML**  
**Paper : HCT - 2.2**

**Time : 3 Hours**

**Maximum Marks : 80**

*Instructions to Candidates:*

Answer any **Five** questions.

1. a) Explain object oriented model, Dynamic model, functional model and Interaction model and Relation among these models. (8)  
b) Explain state diagram behaviour. (8)
2. a) Draw the procedural to handle events in active & Passive objects. (8)  
b) Draw the state chart diagram for university management system. (8)
3. a) Describe guidelines for usecase models. (8)  
b) Explain characteristics and themes of a object oriented system in brief. (8)
4. a) Write the features that distinguish sequence diagram from collaboration diagram. (8)  
b) Show the activities involved in ATM Transaction. (8)
5. a) Define the following terms (8)  
i) Time and space  
ii) Events and Signals.  
b) What is object - oriented SDLC? Compare it with traditional approaches. (8)
6. a) Distinguish between class diagram and object class diagram. (8)  
b) Why object oriented approach is preferable when compared to other approaches. (8)
7. a) State and explain common modeling techniques of class diagrams. (8)  
b) Explain UML. What are the basic building blocks of UML? What are the various types of UML diagrams drawn to handle static and dynamic component of software under development. (8)

8. a) Write a short note on (8)
- i) Plant UML and its features
  - ii) User centric design and usability principles.
- b) Elaborate in detail the various phases of SDLC. (8)
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**PGIIS-030 B-21**  
**PGDCA. & SA. II Semester Examination**  
**COMPUTER SCIENCE**  
**E - Commerce**  
**Paper - OET - 2.2**

**Time : 3 Hours**

**Maximum Marks : 80**

*Instructions to Candidates:*

*Answer any FIVE questions.*

*All questions carry Equal marks.*

1. a) Describe the nature and scope of e-commerce? (8)  
b) Explain the cutting - edge of e-commerce techniques for business? (8)
2. a) Discuss the three different stages in the evolution of e-commerce? (8)  
b) Explain the roadmap of e-commerce in India. (8)
3. a) Explain infrastructure form ecommerce in India. (8)  
b) What is the difference between network infrastructure and IT infrastructure? (8)
4. a) Explain the network layers of TCP/IP protocol? (8)  
b) Write the advantages and disadvantages in internet World Wide Web in ecommerce.(8)
5. a) Define the e-Enterprise? Explain the conventional design in eorganisation? (8)  
b) Explain the ecommerce sales life cycle (ESLC) models? (8)
6. a) Explain the E-Business models based on the relationship of transaction parties? (8)  
b) Discuss E-Business models based of E-Commerce with suitable example? (8)
7. a) Explain the types of eletronic payment - systems (EPS) are required in e-commerce? Explain with example. (8)  
b) Describe the scope of e-marketing in internet (online) techniques. (8)
8. a) What is electronic data interchange (EDI)? Explain the building blocks of an EDI systems. (8)  
b) Write a short notes on Smart - Card and Digital/Electronic Wallets. (8)

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**PGIIS-029-B-21**  
**P.G.D.C.P. & SA-II Semester Degree Examination**  
**COMPUTER SCIENCE**  
**Programming in C++**  
**Paper - SCT - 2.2**

**Time : 3 Hours**

**Maximum Marks : 80**

***Instructions to Candidates:***

Answer any **five** questions.

1. a) What are the object oriented programming principles? (8)
- b) Explain the structure of C++ program with neat diagram. (8)
2. a) Write short note on -
  - i. Keywordds
  - ii. Identifiers.
  - iii. Constants.
  - iv. Variables. (8)
- b) Explain selection statement in C++. (8)
3. a) Define class. What are static Data members and static member function? Explain.(8)
- b) What is Constructor? Explain with an example. (8)
4. a) What is Type casting. Explain with types. (8)
- b) Explain different types of operators in C++. (8)
5. a) What is Inheritance? Explain different types of inheritance. (8)
- b) What is virtual function? Explain with an example. (8)

6. a) Explain I/O streams in C++. (8)
  - b) What is file Handling? Explain. (8)
  7. a) What is string? Explain string handling. (8)
  - b) What is Exception? Explain exception handling mechanism with a neat diagram. (8)
  8. a) What are class template & member template? Explain. (8)
  - b) Write a C++ program to illustrate multiple Inheritance. (8)
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