



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY

(Under Government of Kerala)

CEP EXAMINATION - FEBRUARY 2023

Subject: Introduction to .NET Technologies

PGDCA II

Register No.

Time: 3 Hours

Maximum Marks:100

I. Fill in the blanks. Answer ALL questions.

(10 x 1 = 10)

1. RPG stands for _____
2. The option to lock all controls in VB.NET is found in _____ menu.
3. _____ is a variable that stores text.
4. _____ data type can contain the value either True or False.
5. _____ command changes all letters in a string to lowercase letters.
6. The Frame Class library is a superset of _____ classes.
7. _____ creates a project with the structures to contain COM objects.
8. _____ Arrays are nothing but array of arrays.
9. _____ is a rectangular window whose main role is to host or hold other windows controls.
10. _____ value represents the transparency of a color and can vary from 0 to 255.

II. Explain briefly. Answer any TEN questions.

(10 x 4 = 40)

1. What is Microsoft Jscript? Briefly explain about J#
2. Briefly explain the term Class with respect to VB.NET
3. Briefly explain the term method with respect to VB.NET. How it differs from Sub Procedures?
4. Distinguish between Lock Property and Layer Property.
5. What is a multidimensional Array? What are its different types?
6. Briefly explain any five Assignment Operators in VC#
7. Differentiate between dialog box and message box.
8. What are the different comparison operators available in VB.NET?
9. What do you mean by String Concatenation? How is it done?
10. Briefly explain about String Manipulation Functions.

11. Briefly explain about MDI forms.
12. What is an MFC Application?
13. Briefly explain Custom Validator and Range Validator.

III. Answer any FIVE questions. Explain in detail.

(5 × 10 = 50)

1. Explain about Application Domains in .NET framework 2.0. How is it created?
2. Explain in detail the various loops in VB.NET with example.
3. Explain about the different Data Types available in VB.NET
4. Explain in details about the different String Methods and String Handling Techniques in VB.NET
5. Explain in detail the Database programming with ADO.NET
6. Explain how HTML and XML is used in ASP.NET
7. Explain in detail about the six validation controls in ASP.NET



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY

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CEP EXAMINATION-JUNE 2022

Subject: Introduction to .NET Technologies

PGDCA II

Register No.

Time: 3 Hours

Maximum Marks:100

I. Fill in the blanks. Answer ALL questions.

(10 x 1 = 10)

1. BCL stands for _____
2. _____ includes a set of standard Class Libraries.
3. All the classes related to working with the file system are located in the _____ namespace.
4. Programming with _____ using .NET is called VB.NET
5. _____ is a variable that stores text.
6. _____ are methods which do not return a value.
7. _____ keyword is used for throwing an exception.
8. _____ is a disconnected, in memory record of Data.
9. _____ is a collection of similar elements stored in adjacent memory locations.
10. _____ is used to display a summary of all validation errors occurred in a Web page.

II. Explain briefly. Answer any TEN questions.

(10 x 4 = 40)

1. Briefly explain about the two types of Assemblies in .NET
2. Briefly explain the process of class creation in VC#
3. With a proper piece of code briefly explain how an array is resized.
4. Briefly explain any six data types in VB.NET
5. Briefly explain how a message box is displayed in VB.NET
6. How an MDI form is created in VB.NET?
7. Differentiate with Sub Procedures and Functions.
8. Distinguish between Value Types and Reference Types.
9. What do you mean by Procedure Overloading?
10. What do you mean by Exception Handling?

11. Briefly explain about MFC Applications.
12. Explain about Arithmetic Operators and Logical Operators in VC#.NET
13. Explain about different type of Multi-Dimensional Arrays in VC#.NET

III. Answer any FIVE questions. Explain in detail.

(5 x 10 = 50)

1. Explain in detail about .NET Framework and its advantages.
2. Explain in detail about the features of VB.NET which differs it from the previous versions of VB.
3. Explain in detail the various control statement in VB.NET
4. Explain about ADO.NET. What are its Components? How data is accepted and displayed?
5. Explain about Comparison Operators, Concatenation Operators and Logical/Bitwise Operators in VB.NET
6. What is a Font Class? Explain its different properties. Also explain about the four color components.
7. Explain the different Validation Server Controls in ASP.NET



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY

(Under Government of Kerala)

CEP EXAMINATION-OCTOBER 2022

Subject: Introduction to .NET Technologies

PGDCA II

Register No.

Time: 3 Hours

Maximum Marks:100

I. Fill in the blanks. Answer ALL questions.

(10 x 1 = 10)

1. COBOL Stands for _____
2. The components that make up .NET Platforms are collectively known as _____
3. FCL Stands for _____
4. _____ data type can contain the value either True or False.
5. _____ represents a location in memory that is used to store data.
6. UInt32 represents _____ integer.
7. _____ function is used to replace a part of a String with Sub String.
8. _____ arrays are nothing but array of arrays.
9. IIS Stands for _____
10. _____ is a web server technology in which a user's request is fulfilled by running a script directly on the web server to generate dynamic web pages.

II. Explain briefly. Answer any TEN questions.

(10 x 4 = 40)

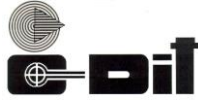
1. Briefly explain about APL Language.
2. Briefly explain CLR and Class Library.
3. Distinguish between Data Reader and Data Adapter.
4. Briefly explain the term Class with respect to VB.NET
5. Briefly explain ff-then structure and if-then-else Structure.
6. Differentiate with Functions and Sub Procedures.
7. Briefly explain how a "Quote" symbol is put in the String.
8. What do you mean by Procedure Overloading?
9. Distinguish between Primitive Variables and Reference Variables.
10. Differentiate between Implicit Conversations and Explicit Conversations in C#

11. Briefly explain any five Assignment Operators in VC#
12. Write a short note on XML.
13. Describe about custom validator and range validator.

III. Answer any FIVE questions. Explain in detail.

(5 × 10 = 50)

1. Explain in detail about Class Libraries, Assemblies and Common Type System of .NET framework.
2. Explain in detail the various loops in VB.NET with example.
3. Explain the process of a small window application creation in VB.NET
4. Explain about ADO.NET. What are its Components? How data is accepted and displayed?
5. What is an MFC Application? Explain in detail how an MFC application is created.
6. What is an HS editor? What are its advantages? Explain its importance in Day today life.
7. Explain any Five HTML server controls. Also explain the importance of XML.



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY

(Under Government of Kerala)

CEP EXAMINATION- FEBRUARY 2023

Subject: Java Programming

PGDCA II

Register No.

Time: 3 Hours

Maximum Marks:100

I. Fill in the blanks. Answer ALL questions.

(10 x 1 = 10)

1. _____ is a type of return-type that does not return any value.
2. Java program processing always starts with main() method and is case sensitive. State true or false _____
3. Narrowing Type Conversion in Java refers to _____
4. All methods and variables in Java language are kept inside a _____
5. Name of a Class, Variable, Method or an Interface in Java language is called _____
6. _____ is the other name for a Question Mark - Colon (?) operator in Java.
7. Every loop in Java has a condition that should be _____ in order to proceed for execution.
8. The value of one primitive variable is assigned to another primitive variable by _____ in Java.
9. _____ is thrown when divided by zero statement is executed.
10. In Java, a protected variable or method of a Super class cannot be accessed from a static method of Subclass of different package. State TRUE or FALSE _____

II. Explain briefly. Answer any TEN questions.

(10 x 4 = 40)

1. What are the features of JAVA?
2. What is the difference between JDK, JRE and JVM?
3. What are the various access specifiers in Java?
4. Difference between Abstract class and Interface.
5. What is Garbage Collection?
6. Differentiate between java constructors and java methods.
7. What is the package? What are the advantages of packages in Java?
8. Differentiate between String and StringBuffer.
9. Differentiate between Statement and PreparedStatement interface.

10. What is an applet? Explain in brief its architecture.
11. What are the life-cycle methods for a JSP?
12. What are the components and container class?
13. What is controls and what are different types of controls in AWT?

III. Answer any FIVE questions. Explain in detail.

(5 x 10 = 50)

1. What is meant by data-types? List out various data-types used in Java with its size, description and syntax for declaration.
2. Write a program to demonstrate the arithmetic operators, compound assignment operators, bitwise operators and unary operators. Also demonstrate the widening and narrowing conversions.
3. What is meant by Exception? What are the different ways to handle exceptions? Explain each with an example.
4. What is JDBC? What are the steps to connect to the database in java?
5. Give a brief description on JNDI.
6. What is a layout manager and what are different types of layout managers available? Explain in detail.
7. Write a Java program to print Fibonacci series using iteration.



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY

**(Under Government of Kerala)
CEP EXAMINATION-JUNE 2022**

**Subject: Java Programming
PGDCA II**

Register No. _____

Time: 3 Hours
Maximum Marks:100

I. Fill in the blanks. Answer ALL questions.

(10 x 1 = 10)

1. The object is created with new keyword at the _____
2. A package is a collection of _____ and _____
3. The class string belongs to _____ package.
4. _____ keyword that makes a variable belong to a class, rather than being defined for each instance of the class.
5. The finalize() method called before _____
6. _____ is used to store a path to the java installation.
7. _____ is the super set which contains heap, stack, objects, pointers, etc.
8. _____ is the process of defining a method in a subclass having same name & type signature as a method in its superclass.
9. _____ is the process of defining a method in terms of itself.
10. _____ is used for implementing inheritance through class.

II. Explain briefly. Answer any TEN questions.

(10 x 4 = 40)

1. Java is a platform independent language. Justify.
2. Briefly explain public static void main(String args[])
3. Write the use of final keyword in variable, method and class.
4. What is the difference between break and continue statements?
5. Difference between static methods, static variables, and static classes in java.
6. What is the difference between the 'throw' and 'throws' keyword in java?
7. Brief on the usage of the Runnable interface Vs Thread class in Java.
8. Write a program to reverse a string using loop.
9. Write a program that detects the duplicate characters in a string.
10. What are the advantages of Packages in Java?

11. Program to check if the given number is an Armstrong number.
12. Differentiate between execute(), executeQuery(), and executeUpdate().
13. What is a servlet?

III. Answer any FIVE questions. Explain in detail.

(5 × 10 = 50)

1. Explain the features of Java Programming language.
2. What is meant by Method Overriding? Explain with an example.
3. Differentiate Interface and Abstract Class with an example.
4. What do you understand by copy constructor in Java? Write an example program.
5. Write a program to find the transpose of a given matrix.
6. What do you understand by JDBC Statements? Give an example for each.
7. What is JSP? How does JSP work?



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY

(Under Government of Kerala)

CEP EXAMINATION-OCTOBER 2022

Subject: Java Programming

PGDCA II

Register No.

Time: 3 Hours

Maximum Marks:100

I. Fill in the blanks. Answer ALL questions.

(10 x 1 = 10)

1. Java Source Code is compiled into _____
2. toString() method is defined in _____
3. _____ will be the return type of a method that does not returns any value.
4. Size of float and double in Java is _____ and _____ respectively.
5. _____ is thrown when divided by zero statement is executed
6. Interface is inherited by a class using _____
7. _____ are always managed by using stack.
8. _____ is the process of defining two or more methods within same class that have same name but different parameters declaration.
9. _____ class relies upon its subclasses for complete implementation of its methods.
10. _____ is used to draw rectangle.

II. Explain briefly. Answer any TEN questions.

(10 x 4 = 40)

1. Differentiate between instance and local variables.
2. What's the purpose of static methods and static variables?
3. Do final, finally and finalize keywords have the same function?
4. Give a briefing on the life cycle of a thread.
5. Write a short note on access specifiers in Java.
6. What is the difference between this() and super() in Java?
7. Difference between start() and run() method of thread class.
8. Briefly explain about applet.
9. Write a program to check whether a given string is palindrome or not.
10. Write a short note on socket.

11. What is the constructor? How many types of constructors are used in Java?
12. What is Data encapsulation in Java?
13. What is the life-cycle of a servlet?

III. Answer any FIVE questions. Explain in detail.

(5 × 10 = 50)

1. What is meant by Method Overloading? Explain with an example.
2. Explain Inheritance with examples for each.
3. Write a program to determine whether two matrices are equal.
4. What are events? Explain in detail about how events are handling in Java.
5. What is JDBC Driver? What are the steps to connect to a database in java? Explain in detail.
6. How can the applets be displayed in the JSP? Explain with an example.
7. Explain the following
 - a) XML
 - b) File class
 - c) servlet
 - d) type casting



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY

(Under Government of Kerala)

CEP EXAMINATION- FEBRUARY 2023

Subject: RDBMS

PGDCA II

Register No. _____

Time: 3 Hours

Maximum Marks:100

I. Fill in the blanks. Answer ALL questions.

(10 x 1 = 10)

1. Expansion of PL/SQL is _____
2. To drop a view, we need to use the _____ command.
3. ADF stands for _____
4. The _____ is a memory area that contains data and control information for the Oracle server processes.
5. A _____ is the smallest unit of storage in an Oracle database.
6. SGA stands for _____
7. A _____ is a mechanism to control concurrent access to a data item.
8. DBMS stands for _____
9. Column of a table in database table is called _____
10. ERM stands for _____

II. Explain briefly. Answer any TEN questions.

(10 x 4 = 40)

1. Write any four-oracle error with SQL code and describe.
2. Briefly explain the features and benefits of SQL.
3. Write the syntax of create View with example.
4. What the difference is between TRUNCATE and DELETE records in a table?
5. Write the basic structure of SQL.
6. What is Data Dictionary?
7. Write a note on database schema.
8. Briefly explain ACID properties.
9. What do you understand by Trigger? What are the three triggering events?
10. What are integrity constraints?

11. Write a short note on hashing.
12. Write a short note on cardinality with example.
13. Briefly explain about Union operation.

III. Answer any FIVE questions. Explain in detail.

(5 x 10 = 50)

1. What is the term JOIN used in RDBMS? What are the different types of joins and usage?
2. Explain Normalization with example.
3. Explain the different types of File Organizations.
4. Explain in detail about different data model.
5. Explain in detail about PL/SQL control structures.
6. What do you mean by deadlock? Explain its detection and prevention.
7. How ER diagrams helpful in designing database? Give example.



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY
(Under Government of Kerala)
CEP EXAMINATION-JUNE 2022
Subject: RDBMS
PGDCA II

Register No. _____

Time: 3 Hours
Maximum Marks: 100

I. Fill in the blanks. Answer ALL questions.

(10 × 1 = 10)

1. Data independence are two types, physical independence and _____
2. An _____ is a property of an entity that differentiates it from other entities.
3. set of permissible values for an attribute is called _____
4. _____ is the process of efficiently organizing data in a database.
5. In ACID Properties, D stands for _____
6. A _____ consists of multiple autonomous computers that communicate through a computer network.
7. A _____ is a set of tables physically stored together as one table that shares a common column.
8. PGA stands for _____
9. _____ is an alternative to log-based recovery techniques.
10. A minimal super key is called _____

II. Explain briefly. Answer any TEN questions.

(10 × 4 = 40)

1. Briefly explain three levels of data abstraction.
2. What do you mean by E-R Model & Object-oriented Model?
3. What do you mean by cardinality and its types?
4. Briefly explain about referential integrity.
5. How can you distinguish between Relational Algebra and Relational Calculus?
6. How do you define functional dependency?
7. What exactly is BCNF?
8. What do you understand by terms of DDL, DML, DCL and TCL in RDBMS?
9. What is the significance of ACID properties for a database?
10. Briefly explain the necessary techniques to control deadlocks.

11. What is the difference between HAVING and WHERE in SQL?
12. Write SQL query to find 3rd highest salary of an employee from the employee table in SQL?
13. Briefly explain the difference between DROP and TRUNCATE commands in SQL?

III. Answer any FIVE questions. Explain in detail.

(5 x 10 = 50)

1. What is RDBMS and also explain its components? Explain, why is RDBMS better than DBMS?
2. Explain all Codd's rules for relational database system.
3. What are the different types of SQL operators?
4. Explain the following
 - a) Deadlock
 - b) Normalization
5. Explain about different joins in database.
6. Draw an ER diagram given below is for a hotel management system with following entities and attributes

Hotel Entity: Attributes are hotel_type, hotel_name, hotel_rent, hotel_ID and hotel_description.

Payments Entity: Attributes are payment customer ID, payment_ID, payment_description, payment_date, payment_amount.

Customer Entity: Attributes are customer_pass, customer_email, customer_mobile, customer_ID, customer_name, customer_address.

Booking Entity: Attributes are booking_description, booking_type, booking_ID.

7. Write a query to create
Student table consisting of Student_ID, Stu_Name, Stu_Subject_ID, Stu_Marks, and Stu_Age columns,
Subject table consists of Subject_ID and Subject_Name columns
 - a) Write a query to insert the data into the table.
 - b) Write a query to view the specific record of the table by using the WHERE clause.
 - c) Write a query to access the last record from the table?
 - d) Write a query in SQL to find the minimum and maximum number from the integer column



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY

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CEP EXAMINATION-OCTOBER 2022

Subject: RDBMS

PGDCA II

Register No.

Time: 3 Hours

Maximum Marks:100

I. Fill in the blanks. Answer ALL questions.

(10 x 1 = 10)

1. RDBMS stands for _____
2. Overall design of data base is known as _____
3. _____ is a computer language for defining data structures.
4. A minimal super key is called _____ key.
5. A _____ is a constraint between two sets of attributes in a relation from a database.
6. _____ statement is used to rename an object.
7. A _____ is a predefined SQL query that is stored in the data dictionary.
8. A loop ends with _____ statement.
9. SQL stands for _____
10. In ACID property 'C' stands for _____

II. Explain briefly. Answer any TEN questions.

(10 x 4 = 40)

1. What are the two types of Data Independence?
2. What are the advantages of DBMS?
3. What is shadow paging? What are its drawbacks?
4. Define Distributed System.
5. What is System Global Area?
6. What are queries? Write a statement to select all records from the table students.
7. Define referential integrity.
8. Define ER diagram.
9. What is the use of ALTER TABLE command? Give examples (minimum one).
10. Define Network Model.
11. Briefly explain about commit and rollback.
12. Write a short note on functional dependency.
13. Write a short note hashing.

III. Answer any FIVE questions. Explain in detail.

(5 × 10 = 50)

1. What are the relational operations on Tables?
2. What is Deadlock? What are the chances to occur deadlock condition? How will you prevent Deadlock?
3. What is the use of JOIN? What are the different types of join with example?
4. What are the different normal forms? Explain with examples.
5. Define Exception? What are the different exceptions in PL/SQL?
6. What are the uses and features of Database Triggers?
7. What are the different types of file organization?



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY

(Under Government of Kerala)

CEP EXAMINATION - FEBRUARY 2023

Subject: Software Engineering and Project Management

PGDCA II

Register No.

Time: 3 Hours

Maximum Marks:100

I. Fill in the blanks. Answer ALL questions.

(10 x 1 = 10)

1. SDLC stands for _____
2. _____ contains a list of all files in the database, the number of records in each file, and the names and types of each data field.
3. A _____ is programmed with the assumption that only one person will ever need to edit the project plan at once.
4. The _____ Model was proposed by Barry Bohem in 1988.
5. _____ testing is done to make sure that any change or addition to particular software hasn't affected any of its existing functionality.
6. Class Diagrams are most useful in illustrating relationships between classes and _____
7. OOA stands for _____
8. _____ diagram shows interactions among object as two-dimensional chart.
9. _____ toy implementation of a system exhibiting limited functional capabilities.
10. _____ are Boolean expressions evaluated dynamically based on the value of extended state variables and event parameters.

II. Explain briefly. Answer any TEN questions.

(10 x 4 = 40)

1. What do you mean by Win Win Spiral model?
2. What are the disadvantages of Waterfall Model?
3. Briefly explain how an event trace diagram is constructed.
4. What do you mean by System Model?
5. What are the importance of Risk Management Plan?
6. Briefly explain the term Portability with respect to Software.
7. Briefly explain the term Package.
8. Briefly explain about DSDM.

9. What is a data Dictionary?
10. What is a Collaboration Diagram?
11. What do you mean by Operational Prototyping?
12. What is DMAIC Model?
13. Write the concept of Lehman's Law.

III. Answer any FIVE questions. Explain in detail.

(5 x 10 = 50)

1. Explain in detail about the different Software Engineering life cycle Models.
2. Explain about Spiral Model with diagram. Also explain Evolutionary model and Prototyping Model.
3. Explain about Software Prototyping and its different types.
4. What is CASE? Explain in detail. Also discuss about the advantages of GUI.
5. Explain the importance of UML in Software Engineering.
6. Explain about Basic, Intermediate and Detailed COCOMO Models.
7. Explain in detail the CASE Tools Taxonomy.



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY
(Under Government of Kerala)
CEP EXAMINATION-JUNE 2022
Subject: Software Engineering and Project Management
PGDCA II

Register No. _____

Time: 3 Hours
Maximum Marks:100

I. Fill in the blanks. Answer ALL questions.

(10 x 1 = 10)

1. A _____ is a toy implementation of the system.
2. A software life cycle model is also called as _____
3. Linear Sequential Life Cycle Model is also known as _____
4. _____ was proposed by Barry Bohem in 1988.
5. A _____ is designed to support multiple users modifying different sections of the plan at once.
6. SRS stands for _____
7. Throwaway prototyping is also known as _____
8. White-box testing is also called _____
9. _____ is a special type of association where the involved classes represent a whole-part relationship.
10. OOA Stands for _____

II. Explain briefly. Answer any TEN questions.

(10 x 4 = 40)

1. Briefly explain the term Software Engineering.
2. What are the different types of Software Projects?
3. What do you mean by Software Prototyping?
4. What is a Class Diagram? Explain its uses.
5. What is Legal Feasibility? How it differs from Operational Feasibility?
6. What is a Data Dictionary?
7. Write a short note on Coupling and Cohesion.
8. What is DSDM? Also explain 4 categories of prototypes recommended by DSDM.
9. Distinguish between Unit Testing and Integration Testing.
10. Briefly explain the term Evolutionary Prototyping. Explain its advantages over Throwaway Prototyping.

11. Briefly explain about Reliability Testing.
12. What do you mean by Code Walk?
13. What do you mean by Debugging?

III. Answer any FIVE questions. Explain in detail.

(5 × 10 = 50)

1. Explain in detail about the features and advantages of UML.
2. Explain about Spiral Model and WIN WIN Spiral model.
3. Explain about DFD. What are the general rules to be practiced while drawing DFD?
4. Explain in detail about Black Box, White Box and Grey Box Testing.
5. Explain in detail about Object Oriented Analysis and its advantages.
6. Explain in detail about the various CASE tools.
7. What is Reverse Engineering? What are the steps involved in it?



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PGDCA II

Register No.

Time: 3 Hours

Maximum Marks:100

I. Fill in the blanks. Answer ALL questions.

(10 x 1 = 10)

1. A _____ usually exhibits limited functional capabilities.
2. A _____ is programmed with the assumption that only one person will ever need to edit the project plan at once.
3. _____ combines project management or project planning.
4. The Spiral Model was proposed by _____ in 1988.
5. A _____ is a contract between a company and a supplier.
6. _____ are most useful in illustrating relationships between classes and interfaces.
7. _____ is a special type of association where the involved classes represent a whole-part relationship.
8. DFD Stands for _____
9. _____ relies heavily on walk through, inspection, and formal verification.
10. OOA Stands for _____

II. Explain briefly. Answer any TEN questions.

(10 x 4 = 40)

1. Briefly explain the term Software Life Cycle Model.
2. What are the shortcomings of Waterfall Model?
3. What are the disadvantages of Spiral Model?
4. Briefly explain the term Contract and its different types.
5. What are the importances of Risk Management Plan?
6. Briefly explain the concept of ERD.
7. Briefly explain the advantages of UML.
8. Distinguish between Coupling and Cohesion.
9. Distinguish between Unit Testing and Integration Testing.
10. Briefly explain the importance of Modularity in Software Design.

11. What do you mean by Guard Conditions?
12. Briefly explain the importance of Event Trace Diagram.
13. Briefly explain the different Classifications of UML Diagrams.

III. Answer any FIVE questions. Explain in detail.

(5 x 10 = 50)

1. Distinguish Between Spiral Model and Win Win Spiral Model.
2. Explain in detail about the different type of Software Projects.
3. Explain about Control Flow Testing, Data Flow Testing and Branch Testing.
4. Explain about Six Sigma with suitable examples.
5. What is UML and explain in detail about the features?
6. Distinguish between Basic, Intermediate and Complete COCOMO Models.
7. Explain in detail the concept of Lehman's Law.
