


VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST - 625234

DEPARTMENT OF COMPUTER SCIENCE

	Course Code:	10CT21	Programme:	B.Sc. Computer Science	CIA:	III
	Date:	15.04.2023	Part:	III	Semester:	II
	Duration:	2 Hours	Academic Year:	2022-23	Max. Marks:	50
	Study Component:	Core Course				
	Course Title:	OBJECT ORIENTED PROGRAMMING WITH C++				

SECTION – A (Remembering)

Answer **ALL** the Questions:

(10 X 1 = 10 Marks)

- 1 How many basic types of inheritance are provided as OOP feature? CO4
a) 4 b) 3 c) 2 d) 1
- 2 Which type of inheritance results in the diamond problem? CO4
a) Single level b) Hybrid c) Hierarchical d) Multilevel
- 3 In hierarchical inheritance, all the classes involve some kind of inheritance. CO4
a) True b) False
- 4 If single inheritance is used, program will contain _____ CO4
a) At least 2 classes b) At most 2 classes c) Exactly 2 classes d) At most 4 classes
- 5 If same message is passed to objects of several different classes and all of those can respond in a different way, what is this feature called? CO5
a) Inheritance b) Overloading c) Polymorphism d) Overriding
- 6 Which type of function among the following shows polymorphism? CO5
a) Inline function b) Virtual function c) Undefined functions d) Class member functions
- 7 Which is the pointer which denotes the object calling the member function? CO5
a) Variable pointer b) This pointer c) Null pointer d) Zero pointer
- 8 Which concept allows you to reuse the written code? CO5
a) Encapsulation b) Abstraction c) Inheritance d) Polymorphism
- 9 What does polymorphism in OOPs mean? CO5
a) Concept of allowing overriding of functions b) Concept of hiding data
c) Concept of keeping things in different modules d) Concept of wrapping things into a single unit
- 10 Base class is also called as _____. CO5
A. derived B. sub C. super D. subordinate

SECTION – B (Remembering)

Answer any **FIVE** Questions:

(5 X 2 = 10 Marks)

- 11 Define Inheritance CO4
- 12 List out the types inheritance CO4
- 13 Define Pointer CO5
- 14 Write the syntax of THIS pointer CO5
- 15 Write about Virtual function CO5
- 16 Define Pure Virtual function CO5
- 17 List out the types of Access Specifier CO5

SECTION – C (Understanding)

Answer any **THREE** Questions:

(3 X 6= 18 Marks)

- | | | |
|----|---|-----|
| 18 | Explain about the single inheritance with example | C04 |
| 19 | Explain about Access Specifier | C04 |
| 20 | Discuss about THIS pointer with example | C05 |
| 21 | Write about Virtual function with explanation | C05 |
| 22 | Difference between virtual function and pure virtual function | C05 |

SECTION – D (Applying)


Answer any **ONE** Question:

(1X 12= 12 Marks)

- | | | |
|----|--|-----|
| 23 | Explain about the pure virtual function with example | C04 |
| 24 | Explain about Multiple inheritance with example | C05 |

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DEPARTMENT OF COMPUTER SCIENCE

	Course Code:	10CT22	Programme:	B.Sc. Computer Science	CIA:	III
	Date:	19.04.2023	Part:	III	Semester:	II
	Duration:	2 Hours	Academic Year:	2022-23	Max. Marks:	50
	Study Component:	Core Course				
	Course Title:	DATA STRUCTURE				

SECTION – A (Remembering)

Answer **ALL** the Questions:

(10 X 1 = 10 Marks)

- 1 Accessing and processing each array elements is called _____.
a) sorting b) traversing c) searching d) merging. CO4
- 2 Allocating memory for arrays during program compilation is _____.
a) dynamic memory allocation b) memory allocation
c) static allocation d) random allocation CO4
- 3 _____ is not a technique of tree traversal.
a) pre-order b) post-order c) prefix d) in-order CO4
- 4 The length of the string can be listed as an additional item in _____.
a) base pointer b) pointer array c) node d) record CO4
- 5 _____ involves maintaining two tables in memory.
a) Arranging b) Bonding c) Combing d) Chaining. CO5
- 6 An _____ is a well defined list of steps for solving a problem.
a) Algorithm b) Program c) Procedure d) Process. CO5
- 7 The _____ is used in an elegant sorting algorithm.
a) Heap sort b) Quick sort c) Merge sort d) Radix sort. CO5
- 8 Each entry in a linked list is called a _____.
a) Link b) Node c) Data Structure d) Avail CO5
- 9 If every node u in G is adjacent to every other node v in G, A graph is said to be _____.
a) isolate b) complete c) finite d) Strongly connected. CO5
- 10 A vertex of degree one is called _____.
a) pedant b) isolated vertex c) null vertex d) colored vertex CO5

SECTION – B (Remembering)

Answer any **FIVE** Questions:

(5 X 2 = 10 Marks)

- 11 Define Queue CO4
- 12 List out the types queue CO4
- 13 Give the parts of a queue CO5
- 14 Define a graph CO5
- 15 List the types of sorting CO5
- 16 Distinguish adaptive and non-adaptive sorting CO5
- 17 List out the types tree structures CO5

SECTION – C (Understanding)

Answer any **THREE** Questions:

(3 X 6= 18 Marks)


- 18 Discuss the characteristics of a Queue CO4
- 19 Explain the operations in Queue CO4
- 20 Write a program in C to insert an element at the beginning of a Linked List CO5
- 21 Discuss on the characteristics of Merge sort. CO5
- 22 Write a note on Warshall's algorithm CO5

SECTION – D (Applying)

Answer any **ONE** Question:

(1X 12= 12 Marks)

- 23 Explain about Binary trees and types of tree traversal techniques CO4
- 24 Explain in detail the working of Insertion sort with an example CO5

	DEPARTMENT OF COMPUTER SCIENCE					
	Course Code:	10AE21	Programme:	B.Sc. Computer Science	CIA:	III
	Date:	20.04.2023	Part:	III	Semester:	II
	Duration:	2 Hours	Academic Year:	2022-23	Max. Marks:	50
	Study Component:	Ability Enhancement Course				
	Course Title:	STATISTICS AND NUMERICAL METHODS				

SECTION – A (Remembering)

Answer ALL the Questions:

(10 X 1 = 10 Marks)

- Which among the following is a sample space obtained while tossing a coin thrice? CO2
 a) {(H,T),(T,H),(T,T),(H,H)} b) {(H,H,H),(H,T,T),(T,T,T)}
 c) {(H,H),(T,T)}
 d) {(H,H,H),(H,H,T),(H,T,T),(T,H,T),(H,T,H),(T,T,H),(T,H,H),(T,T,T)}
- In a random experiment of selecting a red bead from a bag with five beads of colours red, white, blue, green and yellow, probability of “getting a red bead” is CO2
 a) 1/6 b) 1/5 c) 3/5 d) 1/3
- Classical definition of probability gives that if the elementary events of a random experiment are mutually exclusive, exhaustive and equally likely, then CO2
 a) $P(A) = \frac{\text{Number of outcomes of } A}{\text{Total number of outcomes}}$
 b) $P(A) = \text{Number of elements in } A$
 c) $P(A) = \frac{\text{Number of elements in } S}{\text{Number of outcomes of } A}$
 d) None of the above
- The data collected by questionnaires are CO2
 a) Primary data. b) Secondary data. c) Published data. d) Grouped data.
- Classical definition of probability is applicable only when the following holds true CO3
 i) Sample space is finite, ii) Events are mutually exclusive, iii) Events are equally likely, iv) Events are exhaustive
 a) i, ii b) ii, iii, iv c) i, ii, iii, iv d) i
- Phenomenon of Statistical Regularity is observed when CO3
 a) Number of trials of a random experiment increases.
 b) Number of trials of a random experiment is kept minimal
 c) Relative frequencies approach divergent values
 d) None of these
- If $A = \{1\}$ and $B = \{2,3\}$ in $S = \{1,2,3,5,6\}$, which is the event representing the occurrence of exactly one of events A,B? CO3
 a) $\{1,2,3\}$ b) $\{\}$ c) $\{2,3\}$ d) S
- In a random experiment of rolling a die and observing the number shown up, let A be the event “odd number showing up”. Then $A^c =$ CO3
 a) $\{1,2,3,6\}$ b) $\{1\}$ c) $\{1,3,5\}$ d) $\{2,6\}$
- Which of the given sets are not an event of the sample space $S = \{a,1,2,3,z\}$ CO3
 a) $\{a, z\}$ b) $\{1,2,3\}$ c) $\{\}$ d) $\{a, b\}$
- Which of the following is not a characteristic of a random experiment? CO3
 a) Number of outcomes is 2 or more
 b) All outcomes are not known in advance
 c) Outcome obtained in a particular trial is not known in advance
 d) Experiment can be repeated under identical conditions

SECTION – B (Remembering)Answer any **FIVE** Questions:**(5 X 2 = 10 Marks)**

- 11 Define statistics **CO2**
 12 Write a formula of range **CO2**
 13 Draw a Venn Diagram for $A \cup B$ **CO3**
 14 Draw a Venn Diagram for $A \cap B$ **CO3**
 15 Prove that $(A - B) \neq (B - A)$ where $A = \{10,11,12,13\}$, $B = \{13,14,15\}$ **CO3**
 16 Define probability **CO3**
 17 Define Event **CO3**

SECTION – C (Understanding)Answer any **THREE** Questions:**(3 X 6 = 18 Marks)**

- 18 If Two coins tossed find the probability that (i) At least one head (ii) all possible of Tails **CO2**
 (iii) More than one head
 19 If three coins are tossed find the probability of (i) More than one head (ii) At least two Tail **CO2**
 (iii) Exactly two Tail
 20 A random variable X has the following probability function find K **CO3**


Value of x	0	1	2	3	4	5	6	7
P(x)	0	K	2k	2k	3k	K^2	$2K^2$	$7K^2 + k$

- 21 Write formulas of Algebra of sets **CO3**
 22 Explain about discrete mass function and continuous random variable **CO3**

SECTION – D (Applying)Answer any **ONE** Question:**(1X 12 = 12 Marks)**

- 23 State and prove addition theorem probability through (i) Venn Diagram and (ii) set theory **CO2**
 24 Three groups of children contain respectively 3 girls and 1boy, 2girls and 2boys, and 1girl and 3boys. One child is selected at random from each group. Show that the three selected consist of 1girl and 2boys is $13/32$. **CO3**

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	DEPARTMENT OF COMPUTER SCIENCE					
	Course Code:	10GE21	Programme:	B.A./B.Sc.	CIA:	III
	Date:	17.04.2023	Part:	IV	Semester:	II
	Duration:	2 Hours	Academic Year:	2022-23	Max. Marks:	50
	Study Component:		General Elective Course			
	Course Title:	WEB PROGRAMMING				

SECTION – A (Remembering)

Answer **ALL** the Questions:

(10 X 1 = 10 Marks)

- 1 tag indicates _____ CO1
 A. Bold B. Font C. Text D. paragraph
- 2 <TR> tag used to represent _____ CO1
 A. Table row B. table column C. table width D. none
- 3 Which one of the following is unordered list tag? CO2
 A. B. C. D. <DL>
- 4 Which tag is used for adding image? CO2
 A. <a href> B. C. <Text> D. <Frame>
- 5 Which tag is used for linking documents? CO3
 A. <Body> B. <Head> C. <a href> D. <HTML>
- 6 An Xpath expression is specified using _____ CO3
 A. curly braces. B. square braces. C. parenthesis. D. location node
- 7 1) Ever, _____ element creates a new checkbox in the form. CO4
 A. type='checkbox' B. type='chkbox'. C. type='check box'. D. type='chk box'.
- 8 _____ in a form causes changes to server data. CO4
 A. Method = 'post'. B. Method = 'get'. C. Method = 'change'. D. Method = 'action'.
- 9 _____ is intended to define the content of the document. CO5
 A. CSS. B. HTML. C. XML. D. DHTML
- 10 The action attribute in the _____ tag is the path to a script that processes the form data. CO5
 A. type. B. form. C. text. D. select.

SECTION – B (Remembering)

Answer any **FIVE** Questions:

(5 X 2 = 10 Marks)

- 11 Define HTML. CO1
- 12 Write a short note on <marquee>? CO1
- 13 EXPAND HTML and HTTP? CO2
- 14 What is table row tag? CO3
- 15 Define row span and column span. CO3
- 16 Write any two-browser name? CO4
- 17 Image tag in html. CO5

SECTION – C (Understanding)

Answer any **THREE** Questions:

(3 X 6 = 18 Marks)

- 18 Briefly discuss about the structure of HTML CO1
- 19 Discuss about unordered list with example program CO2
- 20 How to create a table? Explain with a simple program CO3
- 21 Explain about Frame tag with suitable example program CO4
- 22 Briefly discuss about radio button and check box with example. CO5

SECTION – D (Applying)

Answer any **ONE** Question:


(1X 12= 12 Marks)

- 23 How to create list with types and suitable example program. CO1
- 24 Write a HTML program to display your Bio-Data using form tag CO3

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DEPARTMENT OF COMPUTER SCIENCE

	Course Code:	10CT41	Programme:	B.Sc. Computer Science	CIA:	III
	Date:	15.04.2023	Part:	III	Semester:	IV
	Duration:	2 Hours	Academic Year:	2022-23	Max. Marks:	50
	Study Component:	Core Course				
	Course Title:	RELATIONAL DATABASE MANAGEMENT SYSTEM				

SECTION – A (Remembering)

Answer **ALL** the Questions:

(10 X 1 = 10 Marks)

- 1 With which type of SQL Server recovery model, is no logging done? C04
a) Differential recovery b) Full recovery c) Bulk-logged recovery d) Simple recovery
- 2 Which of the following is valid SQL for an Index? C04
a) CREATE INDEX ID b) CHANGE INDEX ID c) ADD INDEX ID
d) REMOVE INDEX ID
- 3 To remove duplicate rows from the results of an SQL SELECT statement, the _____ qualifier specified must be included. C04
a) ONLY b) UNIQUE c) DISTINCT d) SINGLE
- 4 TCL stands for: C04
a) Transaction control languages b) Transaction command languages
c) Transaction connect languages d) None of these
- 5 In a one-to-many relationship, the entity that is on the one side of the relationship is called an _____ entity. C05
a) parent b) child c) instance d) Subtype.
- 6 Which command that allows the removal of all rows from a table but flushes a table more efficiently since no rollback information is retained: C05
a) TRUNCATE b) CREATE c) DROP d) ALTER
- 7 _____ operator merges the result sets of two component queries: C05
a) UNION b) UNION ALL c) INTERSECT d) MINUS
- 8 . _____ is preferred method for enforcing data integrity C05
a) Constraints b) Stored Procedure c) Triggers d) Cursors
- 9 A table space is further broken down into _____ C05
a) Tablespace b) Segments c) Extents d) Blocks
- 10 Which constraint that identifies a column or combination of columns as a unique key: C05
a) IS NULL b) NOT NULL c) UNIQUE d) NONE

SECTION – B (Remembering)

Answer any **FIVE** Questions:

(5 X 2 = 10 Marks)

- 11 Define a Transaction in RDBMS. C04
- 12 List out the types of Hashing C04
- 13 Define Data Dictionary C05
- 14 Define Concurrency control C05
- 15 List the types of concurrency control mechanisms C05
- 16 Distinguish between a Client and a Server system C05
- 17 Define Deadlock? C05

SECTION – C (Understanding)

Answer any **THREE** Questions:

(3 X 6= 18 Marks)

- | | | |
|-----------|---|------------|
| 18 | Discuss the types of transaction states in RDBMS | CO4 |
| 19 | Explain the ACID properties of transaction management | CO4 |
| 20 | Write a note on SELECT operation in query processing | CO5 |
| 21 | Discuss on the recoverability mechanisms | CO5 |
| 22 | Write a note on Lock based protocols | CO5 |

SECTION – D (Applying)

Answer any **ONE** Question:


(1X 12= 12 Marks)

- | | | |
|-----------|---|------------|
| 23 | Explain in detail the Indexing and B++ tree indexing in files | CO4 |
| 24 | Explain in detail the characteristics and types of Client Server architecture | CO5 |

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DEPARTMENT OF COMPUTER SCIENCE

	Course Code:	10CT42	Programme:	B.Sc. Computer Science	CIA:	III
	Date:	19.04.2023	Part:	III	Semester:	IV
	Duration:	2 Hours	Academic Year:	2022-23	Max. Marks:	50
	Study Component:	Core Course				
	Course Title:	DOT NET PROGRAMMING				

SECTION – A (Remembering)

Answer **ALL** the Questions:

(10 X 1 = 10 Marks)

- Which is the first event triggered when a user requests an ASP.NET page?
a) Load b) Init c) PreInit d) PreLoad Protocol CO4
- Which of the following is not an ASP.NET component?
a) LinkCounter b) Counter c) AdRotator d) File Access CO4
- The SessionIDs are stored in _____ by ASP.Net?
a) Cache b) Server c) Database d) Cookies CO4
- Which protocol is used to call a web service?
a) SOAP Protocol b) HTTP Protocol c) TCP Protocol d) FTP CO4
- ADO.NET stands for ?
a) ActiveX Data Object b) All Data Object
c) Access Data Object d) ActiveX DataSet Object CO5
- Which properties gets or sets the name of the current data set?
a) DefaultSetName b) DefaultViewManager c) DataSetName d) SetName CO5
- The DataReader object is an alternative to the?
a) DataSet b) DataAdapter c) Both A and B d) None of the above CO5
- To use the .NET Framework Data Provider for SQL Server, an application must reference the _____ namespace.
a) System.Data.Client b) System.Data.SqlClient
c) System.Data.Sql d) None of the mentioned CO5
- Which is a property of the DataGrid control?
a) DataMember b) DataSource c) DataQuery d) All of the above. CO5
- In a connection string _____ represents name of the database
a) Data Source b) Initial Catalog c) Catalog Initial d) Database CO5

SECTION – B (Remembering)

Answer any **FIVE** Questions:

(5 X 2 = 10 Marks)

- Define ASP .NET? CO4
- What do you mean by web server? CO4
- What is database? CO5
- How to create table in database? CO5
- What is ADO .NET? CO5
- Define Data Reader. CO5
- Explain about Data Set. CO5

SECTION – C (Understanding)

Answer any **THREE** Questions:

(3 X 6= 18 Marks)

- Explain the Web services with VB.NET CO4
- Discusses about the Library Function in VB.NET CO4
- Write a VB.NET program factorial number. CO5
- What are the Special features of ADO.NET? CO5
- Difference between ADO and ADO.NET CO5

SECTION – D (Applying)

Answer any **ONE** Question:


(1X 12= 12 Marks)

- Explain about the Web applications with ASP.NET CO4
- What is Relational Database with create Table, Record insertion, Displaying Data, Deleting data, Modifying data, Drop table query with example. CO5

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DEPARTMENT OF COMPUTER SCIENCE

	Course Code:	10AE41	Programme:	B.Sc. Computer Science	CIA:	III
	Date:	20.04.2023	Part:	III	Semester:	IV
	Duration:	2 Hours	Academic Year:	2022-23	Max. Marks:	50
	Study Component:	Ability Enhancement Course				
	Course Title:	NUMERICAL METHODS FOR COMPUTER SCIENCE				

SECTION – A (Remembering)

Answer ALL the Questions:

(10 X 1 = 10 Marks)

- In a ordinary differential equations the first category methods is _____. **CO5**
a. Taylor Method . b. Euler Method. c. Runge-Kutta Method. d. Pointwise Method.
- An unequal intervals, we can use _____ to get the derivative value. **CO5**
a. Newton Forward Interpolation Formula.
b. Newton Backward Interpolation Formula.
c. Newton Forward Difference Formula.
d. LaGrange's Interpolation Formula
- If population census for the years 1931, 1941, 1951, 1961 and 1971 is given and if we want to estimate the population for the year 1931 then _____ method is used. **CO5**
(a) Forward difference derivatives (b) backward difference derivatives
(c) Newton's divided difference (d) Lagrangian
- If population census for the years 1931, 1941, 1951, 1961 and 1971 is given and if we want to estimate the population for the year 1971 then _____ method is used. **CO5**
(a) Forward difference derivatives (b) backward difference derivatives
(c) Newton's divided difference (d) Lagrangian
- The nth divided difference of a polynomial degree n is _____ **CO5**
(a) Zero (b) a Constant (c) a Variable (d) none of these
- While finding the root of an equation by the method of false position, the number of iterations can be reduced **CO5**
a) start with larger interval b) start with smaller interval c) start randomly
d) None of the above
- The convergence of which of the following method is sensitive to starting value? **CO1**
A) False position b) Gauss seidal method c) Newton-Raphson Method
d) All of these
- Newton-Raphson method is used to find the root of the equation $x^2 - 2 = 0$. If iterations are started from - 1, then iterations will be **CO1**
a) cosnverge to -1 b) converge to $\sqrt{2}$ c)) converge to $-\sqrt{2}$ d) No converge
- Which of the following statements applies to the bisection method used for finding roots of functions? **CO1**
a) converges within a few iterations
b) Guaranteed to work for all continuous function
c) is faster than the Newton-Raphson method
d) Requires that there be no error in determining the sign of function
- In the Gauss elimination method for solving a system of linear algebraic equations, triangularzation leads to **CO1**
a) Diagonal Matrix b) Lower triangular matrix c) Upper triangular matrix
d) singular matrix

SECTION – B (Remembering)

Answer any **FIVE** Questions:

(5 X 2 = 10 Marks)

- | | | |
|----|--|-----|
| 11 | Write a formula of Regula False | CO5 |
| 12 | Write a formula of Euler's method | CO5 |
| 13 | Write a formula of Modified Euler's method | CO5 |
| 14 | Write a formula of Improved Euler's method | CO5 |
| 15 | Write steps to solve RK method | CO5 |
| 16 | Write a formula of Newton Raphson's method | CO1 |
| 17 | How to solve Bisection method? | CO1 |

SECTION – C (Understanding)

Answer any **THREE** Questions:

(3 X 6= 18 Marks)

- | | | |
|----|---|-----|
| 18 | Given $y' = -y$ and $y(0) = 1$ Determine the values of y at $x = (0.01)(0.01)(0.04)$ | CO5 |
| 19 | Given $y' = x^2 - y$, $y(0) = 1$, find correct to 4 decimal places the value of $y(0.1)$, by improved Euler's method | CO5 |
| 20 | Solve the equation $\frac{dy}{dx} = 1 - y$, given $y(0)=0$ using Modified Euler's method where $x=0.1$ | CO5 |
| 21 | Solve the positive root of $x^3 - 4x + 1 = 0$ by Regula False method | CO1 |
| 22 | Using Newton's method find the root between 0 and 1 of $x^3 = 6x - 4$ correct to four decimal places | CO1 |

SECTION – D (Applying)

Answer any **ONE** Question:

(1X 12= 12 Marks)

- | | | |
|----|---|-----|
| 23 | Apply fourth order Range-Kutta method to find $y(0.1)$ given that $y' = x + y$, $y(0) = 1$. | CO5 |
| 24 | Find the positive root of $x^3 - x = 1$ correct to four decimal places by bisection method | CO1 |

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DEPARTMENT OF COMPUTER SCIENCE



Course Code:	10CT61	Programme:	B.Sc. Computer Science	CIA:	III
Date:	19.04.2023	Part:	III	Semester:	VI
Duration:	2 Hours	Academic Year:	2022-23	Max. Marks:	50
Study Component:	Core				
Course Title:	WEB PROGRAMMING				

SECTION – A (Remembering)

Answer **ALL** the Questions:

(10 X 1 = 10 Marks)

- PHP is an example of _____ scripting language. CO4
 A) Server-side B) Client-side C) Browser-side D) In-side
- PHP scripts are enclosed within _____. CO4
 A) <php> ... </php> B) <?php ... ?> C) ?php ... ?php D) <p> ... </p>
- Which of the following method sends input to a script via a URL? CO4
 A) Get B) Post C) Both D) None
- PHP's numerically indexed array begin with position _____. CO4
 A) 1 B) 2 C) 0 D) -1
- How many methods are available for the exception class? CO5
 A) 5 B) 6 C) 7 D) 8
- What does SPL stand for? CO5
 A) Standard PHP Library B) Source PHP Library
 C) Standard PHP List D) Source PHP List
- How many predefined exceptions does SPL provide access to? CO5
 A) 13 B) 14 C) 15 D) 16
- Which characters is used to access property variables on an object-by-object basis? CO5
 A) :: B) = C) -> D) .
- Which keyword precedes a method name? CO5
 A) method B) function C) public D) protected
- Which keyword is used to declare a constant property? CO5
 A) const B) con C) constant D) _constant

SECTION – B (Remembering)

Answer any **FIVE** Questions:

(5 X 2 = 10 Marks)

- Define PHP. CO4
- What do you mean by HTML with example? CO4
- What is function? CO5
- How to create function CO5
- What is ASP .NET? CO5
- Define Data base. CO5
- Explain about MYSQL. CO5

SECTION – C (Understanding)

Answer any **THREE** Questions:

(3 X 6= 18 Marks)

- Explain the operator with PHP CO4
- Define variable and data type with example CO4
- Write a program in factorial number using php. CO5
- What is function with example program in php? CO5
- Arrays in php with example program. CO5

SECTION – D (Applying)

Answer any **ONE** Question:

(1X 12= 12 Marks)

- To create login form using php and MySQL database connection. CO4
- What MYSQL Database is with create Table, Record insertion, Displaying Data, Deleting data, Modifying data, Drop table query with example. CO5

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DEPARTMENT OF COMPUTER SCIENCE



Course Code:	10EP6A	Programme:	B.Sc. Computer Science	CIA:	III
Date:	20.04.2023	Part:	III	Semester:	VI
Duration:	2 Hours	Academic Year:	2022-23	Max. Marks:	50
Study Component:	Elective				
Course Title:	SOFTWARE TESTING				

SECTION – A (Remembering)

Answer ALL the Questions:

(10 X 1 = 10 Marks)

1. _____ path is a path in which all nodes are distinct
a) loop-free b) complete c) Du d) simple CO4
2. A _____ error occurs when a specific input data causes the program to execute the desired path but the output value is wrong. CO4
a) Computation b) domain c) path d) Boolean
3. A _____ error occurs when a specific input data causes the program to execute a wrong undesired path in the program. CO4
a) Computation b) domain c) path d) Boolean
4. _____ is called also test environment. CO4
a) workbench b) test bed c) test plan d) test automation
5. The _____ bin the kinds of test cases that must be executed. CO5
a) green b) red c) yellow d) white
6. Which of the below is not a part of the Test Plan? CO5
a) Schedule b) Risk c) Incident reports d) Entry and exit criteria
7. Which Test Document is used to define the Exit Criteria of Testing? CO5
a) Defect Report b) Test Summary Report c) Test Case d) Test Plan
8. Which of the following testing technique deeply emphasizes on testing of one specific module? CO5
a) Inter-system testing b) Gorilla Testing c) Breadth Testing d) Fuzz Testing
9. What is used as a measure of code coverage? CO5
a) Test Effectiveness b) Trends analysis c) Defects d) Time Spent Testing
10. Who is Responsible for the Acceptance Testing is _____ CO5
a) Customer b) Designer c) Software tester d) Developer

SECTION – B (Remembering)

Answer any FIVE Questions:

(5 X 2 = 10 Marks)

11. Define a Integration testing CO4
12. List out the types of system integration techniques CO4
13. Define scalability testing CO5
14. Define regression testing CO5
15. What is meant by Beta testing? CO5
16. Distinguish between acceptance testing and performance testing CO5
17. Define Test Case? CO5

SECTION – C (Understanding)

Answer any THREE Questions:

(3 X 6 = 18 Marks)

18. Discuss the types of integration techniques CO4
19. Explain the following: a) Boot tests b) security test CO4
20. Write a note on test suite structure. CO5
21. Discuss on the characteristics of automated test cases CO5
22. Write a note on reliability tests during SQA. CO5

SECTION – D (Applying)


Answer any ONE Question:

(1X 12 = 12 Marks)

23. Explain in detail the characteristics of integration testing and types of interface errors? CO4
24. Explain in detail the characteristics of test automation infrastructure? CO5

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VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST - 625234**DEPARTMENT OF COMPUTER SCIENCE**

	Course Code:	10SB62	Programme:	B.Sc. Computer Science	CIA:	III
	Date:	12.04.2023	Part:	IV	Semester:	VI
	Duration:	1 Hour	Academic Year:	2022-23	Max. Marks:	25
	Study Component:	Skill Based				
	Course Title:	CYBER SECURITY				

SECTION – AAnswer **ALL** the Questions:**(5 X 1 = 5 Marks)**

- What port number does FTP use? CO2
A. 21 B. 25 C. 23 D. 80
- A computer _____ is a malicious code which self-replicates by copying itself to other programs. CO4
a) program b) virus c) application d) worm
- Identify the first computer virus among the following. CO4
A. Blaster B. Creeper C. Sasser. D. Both b and c
- Which of the following is a type of cyber-attack? CO1
A. Phishing B. SQL Injections C. Password Attack D. All of the above
- Identify the malware which does not replicate or clone through an infection? CO4
A. Trojans B. Worms C. Rootkits D. Virus

SECTION – BAnswer any **TWO** Questions:**(2 X 2 = 4 Marks)**

- List out the types of Attacks. CO2
- What is meant by Trojans? CO4
- Write any two example of antivirus software. CO4
- Define Cryptography. CO5

SECTION – CAnswer any **ONE** Question:**(1 X 6 = 6 Marks)**

- Discuss about System Hacking CO3
- Describe about the Cryptography and Encryption Techniques CO5

SECTION – DAnswer any **ONE** Question:**(1 X 10 = 10 Marks)**

- Explain about Virus, Worms and Trojans CO4
- Explain the Ceaser Cipher Algorithm CO5

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