HIGHER SECONDARY FIRST YEAR(+1)

PUBLIC EXAMINATION – MARCH 2025

11th - COMPUTER SCIENCE – KEY ANSWERS

PART-I

Answer All the Questions   **15 x 1=15**

Q. NO	OPTION	ANSWER	Mark
1	a	RAM	1
2	b	A	1
3	a	MS-DOS	1
4	d	4	1
5	b	S1;s3	1
6	d	int	1
7	d	10	1
8	a	Main ()	1
9	c	t. seconds	1
10	b	class	1
11	a	.(dot)	1
12	b	Function overloading	1
13	b	Base class	1
14	d	Warez	1
15	b	Tamil script code for Information Interchange	1

PART-II

Answer any six questions. Question no 24 is compulsory   **6x2=12**

Q. NO	ANSWER	MARKS
16.	The CPU has three components which are 1.Control unit 2.Arithmetic and logic unit (ALU) 3. Memory unit	2
17.	The Program Counter (PC) is a special register in the CPU which always keeps the address of the next instruction to be executed	2
18.	The icons which are available on desktop by default while installing Windows OS are called standard icons.	2

19.	There are three important control flow statements:
	        Sequential
	        Alternative
	        Iterative
		1
		
		1

20.	setw manipulator sets the **width of the field** assigned for the output. The field width determines the minimum number of characters to be written in output **(OR)** **Syntax:** setw (number of characters)	2
21.	Polymorphism is the ability of a message or function to be displayed in more than one form	2
22.	Scope operator (**: :**) Size of Member selector (**.**) Member pointer selector (⊛) Ternary operator (**? :**) (Any 4)	2
23.	Phishing is a type of computer crime used to attack, steal user data, including login name, password and credit card numbers. It occurs when an attacker targets victim into opening an e-mail or an instant text message **(OR)** Phishing is a term used to describe a malicious individual or group of individuals who scam users by sending e-mails or creating web pages that are designed to collect an individual's online bank, credit card, or other login information	2
24.	Error Error in program lines using namespace std; missing **(OR)** Computer science 16	2

PART-III

Answer any six questions. Question no 33 is compulsory   6x3=18

	ANSWER	**MARKS**
25.		1 $^{1/2}$ 1 $^{1/2}$

	Binary number to Hexa decimal 0001 0111 0101 1 7 5 $(101110101)_2 = (175)_{16}$	
26.	User interface File Management Memory Management Security Management Process Management Fault Tolerance	**3**
27.	Abstraction is the process of hiding or ignoring the details irrelevant to the task so as to model a problem only by its essential features.	**3**
28.	Recursion are algorithm design techniques to execute the same action repeatedly. **(OR)** A function that calls itself is known as recursive function. And, this technique is known as recursion	**3**
29.	An array of strings is a two-dimensional character array. The size of the first index (rows) denotes the number of strings and the size of the second index (columns) denotes the maximum length of each string. Usually, array of strings are declared in such a way to accommodate the null character at the end of each string. **Example:** char Name [6] [10];	**2** **1**
30.	Default Constructors Parameterized Constructors Copy constructors	**3**
31.	**Private visibility mode** When a base class is inherited with **private** visibility mode the public and protected members of the base class become **'private'** memb **protected visibility mode** When a base class is inherited with **protected** visibility mode the protected and public members of the base class become **'protected'** members of the derived classers of the derived class **public visibility mode** When a base class is inherited with **public** visibility mode , the protected members of the base class will be inherited as **protected** members of the derived class and the **public** members of the base class will be inherited as public members of the derived class.	**3**
32.	• With the objectives of spreading Tamil to the entire world through internet, Tamil Virtual University was established on 17th February 2001 by the Govt. of Tamilnadu. • this organisation functions with the name of "Tamil Virtual Academy". • It offers different courses in Tamil language, Culture, heritage etc., from kindergarten to under graduation level	**3**

| 33. | ```cpp
#include <iostream.h>
using namespace std;
int main()
{
int i, sum=0;
for (i=1; i<= 10; i++)
{
sum = sum+i;
}
cout <<"The sum of 1 to 10 is"<< sum;
return 0;
}
``` | 3 |

PART-IV

Answer All the following questions   **5x5=25**

Q. NO	ANSWER	MARKS
34. (a)	(i) Inkjet Printer	2
	(ii) Multimedia projector	2
	(iii) Bar code / QR code Reader	1
(b)	Specifications: 1. circulate 2. -- Inputs: a, b, c : = A, B, C 3. -- Outputs: a, b, c : = C, A, B ALGORITHM: 1. circulate (a, b, c) 2. --a, b, c = A, B, C 3. temp := C 4. C := b 5. b := a 6. a := temp 7. -- a, b, c : = C, A, B	
35. (a)	1. Clock speed 2. Instruction set 3. Word size Explanation	2 3
(b)	In an entry-controlled loop, the test-expression is evaluated before the entering into a loop	5

	Explain any one for or while syntax with an example	
36.(a)		$2^{1/2}$
(b)	• This method copies the value of an actual parameter into the formal parameter of the function. • In this case, changes made to formal parameter within the function will have no effect on the actual parameter. Any suitable program	2 3
37.(a)	(1) Creating Source code (2) Saving source code with extension .cpp (3) Compilation (4) Execution With Explanation	5
(b)	➢ Redundancy ➢ Reusability ➢ Easy Maintenance ➢ Security 　　　　　　　　With Explanation	5
38.(a)		

(b)

38) b)   Enter the age:
             21
          Enter the height:
             180.1
          Enter the weight:
             80.5
          The values entered

             21   180.1   80.5

          (OR) Any suitable values
                in program

          Struct keyword S
                sometimes
          (mere attempt)

5

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