DIRECTORATE OF GOVERNMENT EXAMINATIONS, CHENNAI- 6 HIGHER SECONDARY FIRST YEAR EXAMINATION - MARCH 2024 COMPUTER SCIENCE - KEYANSWER

Note:

1. Answers written only in BLACK or BLUE should be evaluated.

PART - I

- 2. Choose the correct answer and write the option code.
- 3. If one of them (option or answer) is wrong then award zero mark only.

Answer all the questions.		15×1=15	
Q.No	Opt	Answer	Marks
1.	a)	Third generation	1
2.	d)	Abstraction	1
3.	d)	5	1
4.	b)		1
5.	d)	spam	1
6.	d)	*	1
7.	b)	for	1
8.	b)	Electronic Data Interchange	1
9.	d)	Encapsulation	1
10.	a)	55	1
11.	b)	F2	1
12.	a)	Copy Constructor	1
13.	a)	Word length	1
14	d)	Graphics User Interface	1
15.	a)	Pentium III	1

Maximum Marks: 70

PART-II

Q.No	ANSWER		Marks
16.	Primary Memory	Secondary Memory	
	The Primary memory is used to temporarily store the programs (or) It is volatile in nature.	The Secondary memory is used to store the data permanently. (or) It is non-volatile in nature.	2
	Eg.RAM	Eg.Hard disk , CD or DVD	
17.	$(1324)_8 = (724)_{10}$		2
18.	It is used in computers and laptops th applications to be accessed by multip		2
19.	const is the keyword used to declare a constant. (or) const are data items whose values do not change during the execution of the program Eg: const int num=100;		2
20.	 To indicate the function does not return a value. To declare a generic pointer. 		2
21.	Commercial programs that are made available to the public illegally are often called warez.		2
22.	GoogleBingYahoo	(Any Two Only)	2
23.	An algorithm is a step – by - step sequence of statements / instructions to solve a problem.		2
24.	Output: 0 1 2 3 4 5 6 7		2

PART-III

Answer any six questions. Question number 33 is compulsory 6 x 3 = 18

Q.No	Answe	er	Marks
25.	 Recycle bin is a special folder to keep the files or folders deleted by the user. which means we still have an opportunity to recover them. 		3
26.	 The keyword class has to be us The name of the derived class is class A single colon (:) The type of derivation (the visible public or protected. The name of the base class (pa (derived_class_name :visibility { // members of derivedclass }; 	s to be given after the keyword ility mode), namely private, rent class). or)	3
27.	algorithm.	ed by a set of variables in the ution is simply the values of the e changed the state changes.	3
28.	XOR Gate: Input Output A B C 0 0 0 0 1 1 1 0 1		3
29.	isupper() This function is used to check the given character is uppercase General form isupper(char c);	 toupper() This function is used to convert the given character into its uppercase. General form char toupper(char c); (or) Any One Example 	3

Q.No	Answe	r	Marks
30.	CD CD stands for Compact Disc Capacity : CD ROM is 700 MB Polycarbonate plastic material	DVD DVD stands for Digital Versatile Disc /Digital Video Disc Capacity :4.7 GB Optical Disc	3
31.	 Monitor is the most commonly used information. Pictures on a monitor are formed wi pixels. Types of Monitors: CRT,LCD,LED 	output device to display the	3
32.	An array is a collection of variables of t		2
	 referenced by a common name. Types: One - dimensional arrays. Two - dimensional arrays. Multi - dimensional arrays. 		1
33.	<pre>#include<iostream> using namespace std; int main() { int n=5; do { cout<<n<<","; n;="" }while(n="">0); (or) while(n>=1); return 0; } (or)</n<<",";></iostream></pre>	Any suitable program	3

PART – IV

Answer all the questions.

5×5=25

Q.No	Answer	Mar	rks
34.(a)	Components of computer with a Diagram	2	
	Components: 1. Input Unit 2. Central Processing Unit		5
	 Output Unit Memory Unit (with Explanation) 	3	
	(or)		

Q.No	Answ	er	Marks	
34 (b)	 The Distributed operating system is used to access shared data and files that reside in any machine around the world using internet/ Intranet. Advantages A user at one location can make use of all the resources available at another location over the network. Many computer resources can be added easily in the network. Improves the interaction with the customers and clients. Reduces the load on the host computer. 		2 3	5
35. (a)	i. $(11110000)_2$ ii. $(100000011)_2$ (or) $(0000002)_2$	11)2	2½ 2½	5
()		nr)		
(b)	The ability of the function to process than one form is called as function ov Rules:	the message or data in more	2	
	 The overloaded function must arguments or data types. The return type of overloaded to overloading same data type. The default arguments of overloading same data type. 	functions are not considered for oaded functions are not	3	5
36. (a)	Types of ROM :ROM - Read only memoryPROM - Programmable read onlyEPROM - Erasable ProgrammableEEPROM - Electrically Erasable Pro	read only memory	2	5
	(With Explanation)	r)	ა	
(b)	ifelse	switch		
	 Expression inside if statement decide whether to execute the if block or under else block. An ifelse statement uses multiple statements for multiple choices. ifelse statement checks for equality as well as for logical expression. The if statement evaluates integer, character, pointer or floating-point or Boolean type. If the condition is false the else block statements will be executed. 	 Expression inside switch statement decide which case to execute. Switch statement uses single expression for multiple choices. Switch checks only for equality. Switch statement evaluates only character or a integer data type. If the condition is false then default statements are executed. 		5

Q.No		Answer		Ма	arks
37.	Output:				
(a)	-	It unit is any hardware component	that conveys information	2	
		in an understandable form	-		
	Output I	Devices :			
	1. Mo				5
	2. Pr				Ŭ
		beakers			
		ultimedia Projectors			
	5. Pl			•	
		•	y THREE with Explanation)	3	
(b)	Construct	(or)			
(0)	Roll no: 1				
	Marks : 1				5
	Back to M				
38.		Inheritance:			
(a)		le Inheritance		2	
N [™] /	-	iple Inheritance		-	_
		ilevel Inheritance			5
		archical Inheritance			
	-	rid Inheritance	(Explanation)	3	
		(or)			
(b)	Line No	Error	Corrected		
	1	%include <iostream></iostream>	#include <iostream></iostream>		
	2	using namespace std:	using namespace std;		
	3	CLASS Shape	class Shape		
	5	Private()	private:		
	6	int count	int count;		
	7	Protected;	protected:		
	10	PUBLIC;	public:		
	11	Void setwidth [int w]	void setwidth(int w)		
	14	};	}		
	19	}	};		
	20	Class rectangle :: Public Shape	class rectangle : public Sha	ape	5
	22	Public	public:		J
	23	int getarea[]	int getarea()		
	26	};	}		
	27	}	};		
	28	int MAIN()	int main()		
	30	rectangle rect:	rectangle rect;		
	31	rect. setwidth(5);	rect.setwidth(5);		
	33	cout>>"Total area:"	cout<<"Total area:"		
		<rect.getarea()<<endl;< td=""><td><<rect.getarea()<<endl;< td=""><td></td><td></td></rect.getarea()<<endl;<></td></rect.getarea()<<endl;<>	< <rect.getarea()<<endl;< td=""><td></td><td></td></rect.getarea()<<endl;<>		
	35				