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PUBLIC EXAMINATION – March 2024

COMPUTER SCIENCE KEY ANSWERS

PART-I

Answer All the Questions

15 x 1=15

Q. NO	OPTION	ANSWER	Mark
1	a	Third	
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	b	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

6x2=12

Q. NO	ANSWER		Mark
16.			
	Primary memory	Secondary memory	
	The primary memory is used to temporarily store the programs and data when the instructions are ready to	The secondary memory is used to store the data permanently.	
	The Primary Memory is volatile, that is, the content is lost when the power supply is switched off	The Secondary memory is non volatile, that is, the content is available even after the power supply is switched off.	2
	3.Ex ample:RAM,ROM	Example: CDROM,DVDROM etc	(2)
17.	Any two points		
	(1324	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2 - 5 2
18.		laptops that allow same data and by multiple users at the same time each other.	. The users 2
19.	• const is the keyword used to		le. So, it is
20.	To indicate the function doe To declare a generic pointer		2
21.	Commercial programs that are mad called Warez .	e available to the public illegally a	are often 2
22.	Google Bing		2
	Yahoo An algorithm is a sequence of instruction		

24.	0		
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	2		2
	3		
	4		
	5		
	6		
	7		

PART-III

Answer any six questions. Question no 33 is compulsory

6x3=18

25.	 Recycle bin is a special folder to keep the files or folders deleted by the user, which means you still have an opportunity to recover them. The user cannot access the files or folders available in the Recycle bin without restoring it. Restore all, empty recycle bin 	3
26.	i The keyword class has to be used	
	ii The name of the derived class is to be given after the keyword class	
	iii A single colon (:)	
	iv The type of derivation (the visibility mode), namely private, public or protected. If no visibility mode is specified ,then by default the visibility mode is considered as private.	3
	v The name of the base class(parent class), if more than one base class, then it can be given separated by comma.	
27.	 The state of a process can be represented by a set of variables in an algorithm. The state at any point of execution is simply the values of the variables at that point. As the values of the variables are changed, the state changes 	3
28.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3
20	1 1 0	
29.	isupper() 1. This function is used to check the given character is uppercase 2. General Form: isupper(char c) 3. Any example toupper() This function is used to convert the given character into its uppercase. General Form: char toupper(char c); Any Example	3

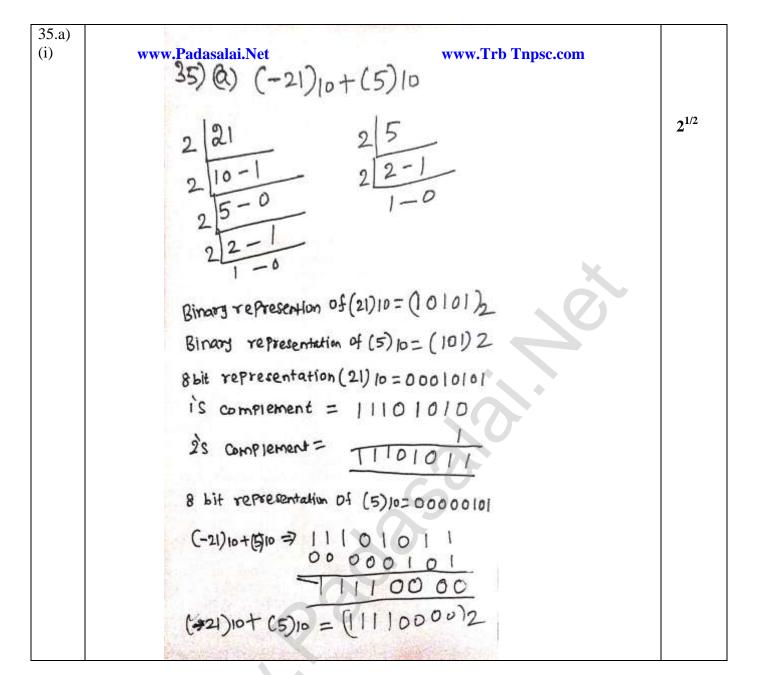
30.			
50.	www.Padasalai.Net	www.Trb Tnps	sc.com
	CD	DVD	, c.com
	1.CD stands for Compact Disc	DVD stands for Digital Versatile Disc (OR)	
	2.00.10	Digital Video Disc	
	2.Capacity.700 MB	DVD ,more than six times what a CD can	
	 3.CD data is represented as tiny indentations known as 	hold.	3
	pits	nots.	3
	4. single-layered sides are	Double-layered sides are usually gold-	
	usually silver-coloured,	coloured	
	Or Any 3 differences		
	•		
		commonly used output device to display the	
31.		on a monitor are formed with picture elem	
		itors may either be Monochrome which dis	-
	_	ck and White or can be color, which displa	y
	results in multiple co		
		with the VGA (Video Graphics Array) card	
	> . The video graphics	card helps the keyboard to communicate w	ith the
	screen.		
	types of monitors :		
	CRT (Cathode Ray T		
	LCD (Liquid Crystal	Display)	
	LED (Light Emitting	Diodes	
32.	An array is a collection of va	ariables of the same type that are referenced	l by a
	common name. In an array,	the values are stored in a fixed number of	2
	elements	2.0	
	of the same type sequentially	y in memory	
	Types of Arrays:		
	One-dimensional arrays		
	Two-dimensional arrays		
	Multi-dimensional arrays		
	ivada dimensional arrays		1
33,	PROGRAM		
	#include <iostream></iostream>		
	using namespace std;		
	int main ()		3
	{		
	int $n = 5$;		
	do		
	{		
	cout< <n<<", ";<="" th=""><th></th><th></th></n<<",>		
	n;		
	}while (n>=1);		
	}		
	(OR) any suitable program	n	

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5x5=25

34.a)	Explanation	
	1.Input unit, output unit	1
	2.CPU	
	a.Control unit	2
	b.ALU	
	c.Internal memory	
	3.Memory unit	1
	Diagram	1
	The Distributed Operating System is used to access shared data and files that reside in any	1
	machine around the world using internet/intranet.	
	The users can access as if it is available on their own computer.	1
	Advantages of distributed Operating System	
	• A user at one location can make use of all the resources available at another location	
	over the network.	3
	 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	
	(Any 3 points)	



(ii)	www.Padasalai.Net $0 + (15)10$	21/2
b)	The ability of the function to process the message or data in more than one form is called as function overloading Rules for function overloading: 1. The overloaded function must differ in the number of its arguments or data	2
	types 2. The return type of overloaded functions are not considered for overloading same data type 3. The default arguments of overloaded functions are not considered as part of the parameter list in function overloading.	3
36.a)	ROM-Read Only Memory PROM-Programmable Read Only Memory	2
	EPROM-Erasable Programmable Read Only Memory	
	EEPROM-Electrical Erasable Programmable Read Only Memory Explain the above types of ROM	3

	S.NoWW	Expression inside if statement decide whether	Switch Trb T		
		to execute the if block or under else block.	expression inside switch statement decide which case to execute.		5
	2	An if-else statement uses multiple statements for multiple choices	switch statement uses single expression for multiple choices.		3
	3	If-else statement checks for equality as well as for logical expression.	switch checks only for equality.		
	4	The if statement evaluates integer, character, pointer or floating-point type or Boolean type.	switch statement evaluates only character or a integer data type.		
	5	If the condition is false the else block statements will be executed	If the condition is false then the default statements are executed.		
	An Output Unit is any hardware component that conveys information to users in an				
	understand		*		1
	Output dev	Write any three devices		•	
	Monitor Monitor	rices			
	Plotter		1.0		
	Printers				
	Speakers				4
	-	a Projectors			-
		any 3 devices)			
	` •		0		
b)	Output of	the program			
	Constructo	or			5
	Rollno:14				
	Marks:100				
	Back to M				
	1.Single In				
,		el Inheritance			
		Inheritance			
		ical Inheritance			
	5.Hybrid I	nheritance bove points With diagram			

Line	Error Coding	Corrected Coding	
No	www.Padasalai.Net	www.T	Tnpsc.com
1	%include <iostream></iostream>	#include <iostream></iostream>	Created by,
2	using namespace std:	Using namespace std;	E.RAJKUMAR M.C.A.,B.Ed,
3	CLASS Shape	class Shape	PG COMPUTER SCIENCE
5	Private()	Private:	Tenkasi district
6	int count	int count;	Mobile No:8122402438
7	Protected;	protected:	Widdlie Wo.0122 102 130
10	PUBLIC;	Public:	
11	Void setwidth[int w]	void setwidth(int w)	
14	};	}	
19	}	};	
20	Class rectangle:: Public Shape	class rectangle: public Sh	nape
22	Public	public:	
23	int getarea []	int getarea()	U
26	};	}	·
27	}	};	
28	Int MAIN()	int main()	
30	rectangle rect:	rectangle rect;	
33	cout>>"Total area:"< <rect.getarea()<<endl;< td=""><td>cout<<"Total area:"<<re< td=""><td>ct.getarea()<<endl;< td=""></endl;<></td></re<></td></rect.getarea()<<endl;<>	cout<<"Total area:"< <re< td=""><td>ct.getarea()<<endl;< td=""></endl;<></td></re<>	ct.getarea()< <endl;< td=""></endl;<>
35	};	}	

Recify any 10 errors(or) write the corrected program with any 10 error rectification