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Model Public Exam Question Paper

CLASS: 11 SUB: COMPUTER S	SCIENCE			_	MARKS: 70 TIME: 3.00 h	
I. Choose the best answer:					15x=15	
1. Which concept is us	ed in fifth gen	eration	computers?			
A) Computing	B) Artificial	l Intellig	ence C) Calcu	ılating	D) Super computing	
2. How many character	rs can be repr	esented	by ASCII code	;?		
A) 16	B) 256	(C) 1024	D) 12	8	
3. Which is a combinat	ion of XNOR g	gate follo	owed by as inv	erter?		
A) NAND	B) AND	(C) XOR	D) OR	2	
4. Which of the following	ng is a multi-u	ıser Ope	erating system	5		
A) MSDOS	B) UNIX	(C) DOS	D) OS		
5. The easiest way to s	tart an applica	ation is	to use its icon	on the		
A) Tool bar	B) Start me	enu	C) Desktop	D) Ta	sk bar	
6. Which operator requ	ires two opera	ands				
A)Unary	B) Binary		C) Ternary	D) Re	D) Relational	
7. How many fundame:	ntal data type	s in C++	- 5			
A) 2	B) 3	(C) 4	D) 5		
8. The different statement	ents in for loo	p which	is separated l	ру		
A)Comma	B) Semicolo	ons	C) Colon	D) Sp	aces	
9. Which function is us	sed to check w	hether	a given charac	ter is a di	git or not?	
A) isalpha()	B) isdigit()	B) isdigit() C) islower()		D) isa	D) isalnum()	
10. In C++, array subse	cript value is e	enclose '	within which s	symbol?		
A) []	B) {}		C) ()	D) < >	•	
11. Structure definition	n is terminated	d by				
A):	B) }	(C);	D) ::		
12. Which of the follow	ing is a user o	defined o	data type?			
A) class	B) float	(C) int	D) obj	ject	
13. The member functi	on defined wit	thin the	class behave l	like		
A) inline function	ons	B) Non	inline functio	on		
C) Outline func	tion	D) Dat	a function			
14. Which is the defaul	lt access speci	ifies?				
A) private	B) public	(C) protected	D) sta	ıtic	
15. When a derived cla	ss inherits on	ly from	one base class	s, it is kno	wn as	
A) Multiple inhe	ritance	B) Hy	brid inheritan	ce		
C) Single inheritance		D) Multilevel inheritance				

II. Answer the any 6 in the following questions:

6x2=12

Q.No: 23 is compulsory

- 16. What is the function of an ALU?
- 17. Draw the truth table for XOR gate.
- 18. What is Multi-user operating system?
- 19. Draw a flowchart for 3case analysis using alternative statements.
- 20. What is the use of setw() format manipulator?
- 21. Write a while loop that displays numbers 2,4,6,8,......20.
- 22. What is the syntax to declare two dimensional array?
- 23. Identify the function name, class tag and type for the following: void add::display()
- 24. What is the difference between public and private visibility mode?

III. Answer the any 6 in the following questions:

6x3=18

Q.No: 29 is compulsory

- 25. What is radix of a number system? Give example.
- 26. Differentiate PROM and EPROM.
- 27. Write a note on the elements of a window.
- 28. King Vikramaditya has two magic swords. With one, he can cut off 19 heads of a dragon, but after that the dragon grows 13 heads. With the other sword, he can cut off 7 heads, but 22 new heads grow. If all heads are cut off, the dragon dies. If the dragon has originally 1000 heads, can it ever die?

 (Hint:The number of heads mod 3 is invariant.)
- 29. Write a C++ program to print multiplication table of a given number.
- 30. What is Built in functions?
- 31. What do you mean by modularization and software reuse?
- 32. Write with example how will you dynamically initialize objects?
- 33. What are ethical issues? Name some.

IV. Answer the following:

5x5=25

- 34. Explain the following:
 - a. Retinal scanner b. Keyer c. Laser printer **(OR)** Explain the characteristics of a microprocessor.
- 35. Explain the process management algorithms in operating system. (OR)

Assume an 8×8 chessboard with the usual coloring. "Recoloring" operation changes the color of all squares of a row or a column. You can recolor re-peatedly. The goal is to attain just one black square. Show that you cannot achieve the goal. (Hint: If a row or column has b black squares, it changes by (|8 - b| - b|).

Kindly send me your questions and answerkeys to us: Padasalai.Net@gmail.com

36. Explain the following:

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a. Conditional operator
                                 b. Data type Modifiers (OR)
Explain Nested - if statements.
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37. Explain scope of a variable with example. (OR) Write a C++ program to find the difference between two matrix.

38. Explain: a. Global object b. Local object (OR) Read carefully the following program and fill the table: #include <iostream> using namespace std; class Shape { private: int count; protected: int width, height; public: void setWidth(int w) { width = w; } void setHeight(int h) { height = h; } }; class Rectangle: public Shape public: int getArea() return (width * height); } **}**; int main() Rectangle Rect; Rect.setWidth(5); Rect.setHeight(7); // Print the area of theobject. cout<< "Total area: "<<Rect.getArea() <<endl;</pre> return 0;

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	Visibility modes –					
Member of class	Public for acquiring the properties of the base class					
	Private	Public	Protected			
Shape(base class)						
Rectangle(derived class)						

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