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Common Quarterly Examination - September 2022

Standard - 11 COMPUTER SCIENCE

Time Allowed: 3.00 Hours

Maximum Marks: 70

PART - A

I.	Ans	wer all and Choos	15×1=15				
	1)	When a system restarts which type of booting is used?					
		a) Warm booting	b) Cold booting	c) Touch boot	d) Real boot		
	2)	Which refers to th	e number of bits pr o	cessed by a compu	iter's CPU?		
		a) Byte	b) Nibble	c) Word length	d) Bit		
	3)	Which gate is calle	ed as the logical inve	erter?			
		a) AND	b) OR	c) NOT	d) XNOR		
	4)	What is the smalle	est size of data repre	esented in a CD?			
		a) blocks	b) sectors	c) pits	d) tracks		
	5)	Operating system	is a				
		a) Application soft	ware	b) Hardware			
		c) System softwar	re ·	d) Component			
	6)	The shortcut key used to rename a file in windows					
		a) F2	b) F4	c) P5	d) F6		
	7)	Which of the follow	ving activities is algo	orithmic in nature?			
		a) Multiply two nui	mbers	b) Draw a kolam			
		c) Walk in the parl		d) Swaping of two	numbers		
	8)	If C is false just be	ontrol flows through	ih			
		1 S1					
		2 While C					
		3 S2					
		4 S3					
		a) S1; S3		b) S1; S2; S3			
		c) S1; S2; S2; S3		d) S1; S2; S2; S2; S3			
	9)		= a+8, b+7, the				
		values of m and n are					
		a) $m = 8, n = 7$	b) $m = 7, n = 8$	c) $m = 7, n = 8$	d) $m = 8, n = -7$		
	10)	Who coined C++?					
			b) Rick Bjarne	c) Bill Gates	d) Dennis Ritchie		
	11)		; what will be result				
		a) 4	b) 5	c) 1	d) 0		
	12)	Which of the follow	wing is not a data ty	pe modifier?	,		
		a) signed	b) int	c) long	d) short		
	13)	This can be used as alternate to endl command:					
		a) \t	b) \b	c) \0	d) \n		
	14)	How many times the following loop will execute? for (int $i=0$; $i<10$; $i++$)					
		a) 0	b) 10	c) 9	d) ±1		
	15)	Identify the odd one from the keywords of jump statement:					
			h) switch		all continues		

PART - B

	A A BIV	STX of the	the following	and question n	o. 23 i	s compulsory:
11.	Answerain	3476 01 1111		-		6

6×2=12

- Distinguish between data and information.
- 17) Convert (46)₁₀ into Binary number?
- 18) What are the parameters which influence the characteristics of a microprocessor?
- 19) List out any two uses of Operating system.
- 20) How will you Rename a file?
- 21) Define an algorithm.
- 22) Write the following real constants into the exponent form:
 - (i) 23.197
- (ii) 7.214
- (iii) 0.00005
- (iv) 0.319
- 23) Write a for loop that displays the number from 21 to 30.

PART - C

III. Answer ANY SIX of the following and question no. 30 is compulsory:

 $6 \times 3 = 18$

- 24) Differentiate Optical and Laser mouse.
- 25) Reason out why the NAND an NOR are called universal gates?
- 26) Write down the classifications of microprocessors based on the instruction
- 27) List out the key features of Operating System.
- 28) Write a note on Recycle bin.
- 29) Draw a flowchart for -3 case analysis using alternative statements.
- 30) Evaluate the following C++ expressions where x, y, z are inters and m, n are floating point numbers. The value of x = 5, y = 4 and m = 2.5;
 - (i) n = x + y/x;

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- (ii) $z = m^*x+y$;
- (iii) $z^* = x^*m + x$;
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- 31) Write a C++ program to print multiplication table of a given number.

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PART-D

IV. Answer ALL:

5×5=25

a) Discuss the various generation of computers.

- (OR)
- b) Find 1's Complement and 2's Complement for the following Decimal number. (a) -98 (b) (-135)
- 33) a) Explain the fundamental gates with expression and truth table. (OR)
 - b) Explain the types of ROM.

(OR)

- 34) a) Explain the characteristics of a microprocessor.
- b) Explain the process management algorithms in Operating System.
- (OR) 35) a) Explain the versions of windows Operating System.
 - b) Write a program to fine sum of the series. $S = 1 + x + x^2 + \dots + x^n$

(OR)

36) a) What are the types of Errors?

- b) What is an entry control loop? Explain any one of the entry controlled loop with suitable example.