

## SECOND YEAR HIGHER SECONDARY EXAMINATION MARCH 2017

SUBJECT : COMPUTER INFORMATION TECHNOLOGY

CODE. NO: 5014

Qn No	Sub Qns	Answer Key/Value Points	Score	Total
1		c) monitor	1	1
2		a) Peripheral - (iii) Devices outside the system and connected to the computer. b) Memory - (v) A device where information can be stored and retrieved c) CPU - (ii) Acts as the "brain" of the computer d) Motherboard - (i) Resides inside the system unit and is the main circuit board.	2	2
3	(a)	Expansion of LED / Difference	1	
	(b)	LCD screens are flat, slim, smaller, less weight, high resolution, better image etc (Any two)	2	3
4	(a)	Cache memory - Small, volatile, high speed data access, stores frequently used data and programs	1	
	(b)	Contains frequently used data, There is no need to read primary/secondary memory to fetch the data.	2	3

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5		The time required to access the data from memory. Access Time = Seek time + latency time	1	1
6		b) RAM	1	1
7		RAM - DRAM, SRAM with explanation Rom - PROM, EPROM, EEPROM with explanation	2 2	4
8		OR Master Disc, Laser beam technology, spiral tracks, formation of pits and lands.	4	4
9	(a)	Processor - Intel Core 2 Duo, Speed 2.2 GHz, Wordlength - 64 bit, Cache - 2 MB.	2	
	(b)	A single chip which contains the entire CPU	1	3
10		Steps in Fetch cycle	1	
		Steps in execute cycle	1	2
11		Functions/explanations of ALU	1	
		" " " CU	1	2
12		d) Hard disk	1	1
13		Any one valid specification for monitor, Hard disk, memory	1x3	3

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14	a)	Definition of DBMS	1	3
	b)	Any two advantages	2	
15	d)	Attribute	1	1
16	a)	Struct Book mybook = {101, "DBMS", "Alexis hem", 400.0}; OR Any valid initialisation.	1	3
	b)	main program	2	
17	a)	int max(int, int);	1	2
	b)	read numbers, invoke max()	1	
18	d)	Abstraction	1	1
19	a)	private	1	4
	b)	Box b; b.set(2,5,6);	1	
	c)	void Box::display() {cout << length << breadth << height; }	2	
20		private, public, protected - Explanation	1x3	3
21	a)	class definition	2	3
	b)	main() program	1	

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22	a)	Complex $c_1(3,5)$ , $c_2(7,3)$ , $c_3$ ; $c_3 = c_1 + c_2$ ;	1	4
	b)	friend Complex operator + (Complex a, Complex b); body of operator function	1 2	
		OR		
23		Overloaded functions - Invoking functions	2 2	4
24	a)	Single, multiple, hierarchical, multilevel, Hybrid - any four	2	4
	b)	Write any example program for deriving a class	2	
25	a)	<code>ios::out</code> ! <code>ios::in</code> - for reading and writing	1	3
	b)	Any 4 file opening modes and their meaning	2	
26		Opening a file "out.txt" (1) Reading and counting (1) Displaying total characters (1)	3	3
27		OR <code>ofstream</code> , <code>ifstream</code> , <code>fstream</code> - Explanation	3	3

TOTAL

60

4/4

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