## HPC - Unit Test-I (9 July 2020)

\* Required

1.	The	_ plays very impor	tant role in superscalar processors *	2 points
	Mark only one oval.			
	Memory			
	Peripherals			
	Motherboard			
	Compilers			
0				
2.	Which of the following	g is true about par	rallel computing performance? *	2 points
	Mark only one oval.			
	Computations use multiple processors			
	There is an increase in speed.			
	Increase in speed	is loosely tied to the	number of processor or computers used.	
	All of the above			
3.	In superscalar proces	sors,	_ mode of execution is used *	2 points
	Mark only one oval.			
	In order			
	Opening Post order			
	Out of order			
	None of the above			

4.	Type of HPC applications is_*	2 points
	Mark only one oval.	
	A. Management	
	B. Media mass	
	C. Business	
	D. Science	
_		
5.	VLIW performance is highly dependent on the*	2 points
	Mark only one oval.	
	Branch prediction	
	Compiler	
	loop unrolling	
	speculative execution	
O	6 to Q10	
G		
6.	FLOPS stands *	2 points
	Mark only one oval.	
	Flip Flop	
	Floating point operating system per second	
	Floating point operation per second	
	Floating point second	

7.	If increasing in the memory block size then it affects latency *	2 points	
	Mark only one oval.  Latency becomes zero		
	Latency becomes less  Latency becomes more		
	Does not affect		
8.	which pages we are going to browse ahead of time and issue requests for them in advancethis approach know as*	2 points	
	Mark only one oval.		
	multithreading		
	spatial locality		
	prefetching		
	none of the above		
9.	Following is the drawback of SIMD architectures *	2 points	
9.	Tollowing is the drawback of slivid architectures	2 points	
	Mark only one oval.		
	High Bandwidth		
	Hardware Cost		
	Single Control Unit		
	Resource utilization		

10.	UMA & NUMA consider the following factor to access any memory word *	2 points
	Mark only one oval.	
	time	
	speed	
	cost	
	delay	
Q1	11 to Q15	
11.	"Degree" of the switch referred to as *	2 points
	Mark only one oval.	
	Only input ports	
	Only output ports	
	total number of ports	
	none of the above	
12.	What is the role of an interconnection network? *	2 points
	Mark only one oval.	
	To transport data and messages between static and dynamic networks	
	To transport data and messages between the processing unit and memory modules	
	To transport memory modules through switches	
	To transport memory and processing units via switches	

13.	Following is the limitation of the snoopy protocol *	2 points		
	Mark only one oval.			
	Each coherence operation is sent to all processors			
	each coherence operation is sent to limited processors			
	each coherence operation is sent to selected processors			
each coherence operation is sent to only those processors that need to be notif				
1 /	In Decket Deuting, each market report agree *			
14.	In Packet Routing, each packet must carry *	2 points		
	Mark only one oval.			
	error checking information			
	sequencing information			
	header information			
	all of the above			
15.	4*4 mesh can be mapped into the following hypercube *	2 points		
	Mark only one oval.			
	1-D Hybercube			
	2-D Hybercube			
	3-D Hybercube			
	4-D Hybercube			

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