Exam 1 (Total Marks 16)

<u>Name:</u> <u>ID:</u> <u>Serial Number:</u>	
1) Computer architecture consists of:	
a) Instruction set architecture. b) Computer organization. c) Instruction set architecture	anc
computer organization. d) None of a, b, c.	
2) A computer which has a specific task or set of tasks is called:	
a) Desktop computer. b) Embedded computer. c) Server. d) None of a, b, c.	
3) High level programs are:	
a) Hardware dependent. b) Hardware independent. c) Assembly programs. d) None of a, b), c
4) Number of tasks completed per unit time is called:	
a) Latency. b) Throughput. c) Execution time	
5) Which of the following translates high level programs into instructions:	
a) Operating system. b) Compiler. c) Assembler. d) None of a, b, c	
6) Computer performance depends upon	
a) Instruction count. b) Clock cycle time. c) Clock cycle per instruction (CPI). d) All of a, b,	, C
7) Clock cycle time and CPI depend upon:	
a) Compiler b) Instruction set architecture. C) Compiler as well as instruction set architecture.	e.
d) Processor implementation	
8) Time taken to run a program 10s on A, 50s on B, How much times A is faster than B	
a) 10 (b) 15 (c) 1.5 (d) 5	
9) If there are 10 clock cycles and clock rate is 1 GHz, then CPU time is	
a) 10ns (b) 1ns (c) 20ns (d) 5ns	1
10) There are 10 instructions such that each instruction takes one cycle. If clock rate is 1 GHz to CPU time is	ner
a) 10 ns (b) 1 ns (c) 20 ns (d) 5 ns 11) In multiprocessors, the focus is on:	
a) response time (b) Execution time (c) Throughput (d) None of a, b, c	
12) Static power is due to thethat flows even when the transistor is OFF.	
13) power is the primary source of power dissipation	
14) Increasing the number of transistors increase the current	
15) When we increase the clock rate, the power	
16) Write the formula for CPU time in terms of instructions count, CPI and clock rate:	
10) with the formula for CI o time in terms of histractions count, CI I and clock fate.	