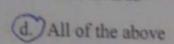
6. Width	of which bus can help us to estimate the physical address space?
a.	Control Bus
(b.)	Address Bus
c.	Data Bus
d.	None of the above
7. At which	ch step of Instruction Execution Cycle, the value of PC is modified?
a.	Instruction Fetch
b.	Instruction Decode
c.	Operand Fetch from Memory
(d.)	Execution
e.	Write result back to Memory
8. Which into th	flag is set when the result of an unsigned arithmetic operation is too large to fit the destination?
a.	OF
b.	SF
c.	ZF
(d.)	None of the above
9. When a	n assembly language program is assembled, which file is produced?
(a.)	Executable file
b. (	Object File
c. A	All of the above
d. N	None of the above
). What sp	pecial purpose does the ECX register serve?
a. As	ccumulator
(F.)Cc	ounter
c. Mi	ultiplier
d. No	one of the above

Section:

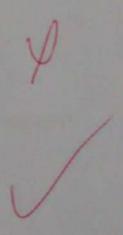
11. Central Pr	ocessing Unit (CPI) is o	connected to the rest of the computer system using
a.	Data Bus	die computer system using
b.	Control Bus	
	Address D	



- e. None of the above
- 12. When memory is not involved, what step is performed on instruction after decoding in Instruction Execution Cycle?
  - a. Instruction Fetch
  - B Instruction Execution
    - c. Write result back in Memory
    - d. Operand Fetch from Memory
- 13. Which of the following memory unit resides directly inside the CPU?
  - a. L2 Cache Memory
  - b. L3 Cache Memory
  - (c.) Registers
  - d. Compact Disk
- 14. Which register indicates the base address of stack segment?



- b. SS
- c. DS
- d. CX
- 15. What is the range of 8-bit signed number?
  - a. 256
  - (b.) -128 to +127
    - c. -127 to +128
    - d. All of the above



16. How to represent 5d in hexadecimal representation?
a. 50
<b>ⓑ</b> 5h
c. 5b
d. None of the above
17. What the integer expression (2 + 2 / 2) will produce?
a. 1
b. 2
© 3
d. 4
18. How many times the following loop runs?
this_is_label:
jmp this_is_label
a. 10 times
b. 1000 times
c. 100000 times
d. Endless times
19. If CX is initialized to 2 before the start of loop, how many times the loop will run?
a. 1
(b) 2
c. 3
d. None of the above
20. Which of the following represents four classes of interrupts?
a. Program, Processor, ALU, Registers
b. Program, Timer, I/O, Hardware Failure
c.) Processor, Cache, I/O, Hardware Failure
d. All of the above

You are given three (8bit) signed binary numbers D, B and C. Evaluate A by using the equation A = D - B - C and then convert A into decimal where

D = 0011 1110

B = 1101 0101

C = 1101 1011

1x2+0x2+0x2+0x2+1x2+1x2+1x2+0x2

In the following x86 assembly language code, <u>underline</u> the errors in Wrong Code and write the corrected version in Corrected Code. Marks will be awarded only if the <u>underlined</u> error is corrected in the corrected code.

Given Code	Corrected Code
a DW OFFFFAh  b DW OABCDEh  c DD 1234ACh  d DW OAFO40h	DD OFFFFAH  BOD OABCDEH  DD OAFOGOH
MOV AX, a  ADD AX, C  MOV AL, 127+128  MOV AL, DW PTR C  SUB 89, 50  INC A  MOV CS, 10h	Mov Ax, word ptx a  Add Ax, word ptx a  Mov AL, Byte ptx a  Destination and source both cannot be constant  Connot move avalue

(9)