## Quizzes: Chapter 17

1.	The	statement adds 1 to the variable.
	a. increment	
	<b>b.</b> decrement	
	c. loop	
	d. complemen	nt
	<b>Correct Ans</b>	wer: (a)
2.	The	statement repeats one or more actions.
	a. increment	one or more would
	<b>b.</b> decrement	
	c. loop	
	d. complemen	nt
	Correct Ans	
	TTI.	
3.		statement subtracts 1 from the variable
	a. increment	
	<b>b.</b> decrement	
	c. loop	
	d. complemen	
	Correct Ans	wer: (b)
4.	To clear a var	riable, we use the statement(s)
	a. increment	
	<b>b.</b> decrement	
	c. loop	
	d. decrement	and loop
	<b>Correct Ans</b>	*

5. To assign a number to a variable, we use the a. increment	statement(s).
b. decrement	
c. loop	
d. decrement and loop	
Correct Answer: (a)	
<b>6.</b> To copy the value of one variable to another, we ment(s).	e use the state
a. increment	
<b>b.</b> decrement	
c. loop	
<ul><li>d. increment, decrement, and loop</li><li>Correct Answer: (d)</li></ul>	
<ul> <li>7. A Turing machine has these components:</li> <li>a. tape, memory, and read/write head</li> <li>b. disk, controller, and read/write head</li> <li>c. tape, controller, and read/write head</li> <li>d. disk, memory, and controller</li> <li>Correct Answer: (c)</li> </ul>	
<ul><li>8. In a Turing machine, the holds a sequer</li><li>a. disk</li><li>b. tape</li></ul>	nce of characters.
c. controller d. read/write head	
Correct Answer: (b)	
9. The is the theoretical counterpart of the	CPU.
a. disk	
<b>b.</b> tape	
c. controller	
d. read/write head	
Correct Answer: (c)	

10.	The controller has states.
	a. three
	b. four
	c. a finite number of
	d. an infinite number of
	Correct Answer: (c)
11.	A is a pictorial representation of the states and their relationships to each other.
	a. transition diagram
	b. flowchart
	c. transition table
	d. Turing machine
	Correct Answer: (a)
	Correct initiation (a)
12.	A shows, among other things, the movement of the read/ write head, the character read, and the character written.
	a. diagram
	b. flowchart
	c. transition table
	d. Turing machine
	Correct Answer: (c)
13.	We use to denote a program's complexity.
	a. the Turing number
	b. big-O notation
	c. factorials
	d. the Simple Language
	Correct Answer: (b)
14.	The complexity of a problem is O $(\log_{10} n)$ and the computer executes 1 million instructions per second. How long does it take to run the program if the number of operations is 10,000?
	a. 1 microsecond
	<b>b.</b> 2 microseconds

**c.** 3 microseconds

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**d.** 4 microseconds

**Correct Answer: (d)**