

on Analog and Binary **Signals**

Instructions: For each question, choose the single best answer. Make your choice by

clicking on its button. You can change your answers at any time. When the quiz is graded, the correct answers will appear in the box after each question.			
1. What does the word binary mean?			
○ A.	Binary means "containing a computer."		
B.	Binary means "having only two states."		
○ C .	Binary means "having a discrete number of values."		
○ D .	Binary means "using electronics to do arithmetic."		
В			
2. What is a bit ?			
A.	A <i>bit</i> is a single binary value.		
○ В.	A bit is a collection of several bytes.		
○ C .	A bit is a single character stored in main memory.		
○ D .	A bit is a small unit of computer time.		
Α			
3. Which of the following is NOT an advantage of building computers out of binary devices?			

Binary devices are simple and easy to build.

Binary signals are unambiguous.

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	○ C.	Binary devices are much faster than decimal devices.		
	O D.	Patterns of bits can be used to represent anything symbolic.		
	С			
4. W	hat is tr	rue of an analog signal?		
	○ A .	An analog signal has a discrete number of states.		
	○ B.	An analog signal is the only way that music can be recorded.		
	○ C.	An analog signal can never be converted into a binary signal.		
	O D.	An analog signal is usually continuously changing in value.		
	D			
5. If an analog signal picks up some noise, has information been lost?				
	○ A .	No — electronics can just ignore the noise.		
	○ B .	No — information has been added to the signal.		
	○ C.	Maybe — it depends on how loud the noise is.		
	○ D.	Yes — the noise hides the exact values of the original signal.		
	D			
6. If a binary signal picks up some noise, has information been lost?				
	• A. is not to	No — the exact value of the bits can be determined, as long as the noise oo great.		
	○ B .	No — binary signals can't pick up any noise.		
	○ C .	Yes — the exact value of the bits cannot be determined.		

Yes — the signal will have extra bits in it because of the noise.

7. Why does a computer have a clock?

Α

C	A .	The state of binary signals is measured only at specific instants in time.		
) B .	A clock is needed to check how fast signals are changing.		
) C .	A clock is needed to check that voltage levels are correct.		
CL	D. urrent	A clock is used only with application programs that need to know the time.		
Α				
8. Can Japanese writing be represented in a computer?				
C	Α.	No — only English and English-like languages can be represented.		
) B .	No — only languages with an alphabet can be represented.		
C) C .	Yes — but a special processor chip is needed.		
C	D.	Yes — since it is symbolic, and anything symbolic can be represented.		
D				
9. Can English writing be represented with analog signals?				
	Α.	No—only binary signals can represent symbolic data.		
C) B.	No — it is not symbolic.		
C) C .	No — analog signals don't represent anything.		
C	D.	Yes — just read out loud into a microphone.		
D				
10. Why is it important that unlimited perfect copies can be made of data represented in binary?				
da	A. ata.	Transmitting data over the Internet involves making many copies of the		
be	B. e perf	Application programs such as wordprocessors and computer games must ect copies of the original in order to run.		
C) C.	Because data are copied back and forth between parts of a computer		

system many times per second.

D. All of the above.

D

grade quiz

The number you got right:

10 Percent Correct:

100

Letter Grade:

Α



If you have returned here from another page, or have re-loaded this page, you will need to click again on each of your choices for the grading program to work correctly. You may want to press the SHIFT KEY while clicking to clear the old answers.