Quizzes: Chapter 15

- 1. Data is compressed using a dictionary with indexes to strings. This is a. Huffman encoding **b.** Lempel Ziv encoding c. Morse coding d. lossy coding **Correct Answer: (b)** 2. A string of one hundred 0s is replaced by two markers, a 0, and the number 100. This is ____. a. run-length encoding **b.** Morse coding c. Huffman encoding d. Lempel Ziv encoding **Correct Answer: (a) 3.** ____ is an example of lossy compression. e. Huffman encoding f. Lempel Ziv encoding g. Run-length encoding h. JPEG
- **4.** In a ____ data compression method, the received data is an exact copy of the original message.
 - a. lossless

Correct Answer: (d)

- **b.** lossy
- c. JPEG

d. MPEG

	Correct Answer: (a)
5.	data compression method, the received data need not be an exact copy of the original message. a. Only in MP3 b. Only in JPEG c. Only in MPEG d. In MP3, JPEG, or MPEG Correct Answer: (d)
6.	encoding is a lossless data compression method. a. Only Huffman b. Only Run-length c. Only LZ d. Huffman, run-length, or LZ Correct Answer: (d)
7.	In encoding, the more frequently occurring characters have shorter codes than the less frequently occurring characters. a. Huffman b. run-length c. LZ d. JPEG Correct Answer: (a)
8.	In encoding, PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
9.	LZ encoding requires a. only a dictionary b. only a buffer

	c. only an algorithmd. a dictionary, a buffer, and an algorithmCorrect Answer: (d)
10.	JPEG encoding involves, a process that reveals the redundancies in a block. a. blocking b. the discrete cosine transform c. quantization d. vectorization Correct Answer: (b)
11.	In JPEG encoding, the process breaks the original picture into smaller blocks and assigns a value to each pixel in a block. a. blocking b. DCT c. quantization d. vectorization Correct Answer: (a)
12.	The last step in JPEG,, removes redundancies. a. blocking b. quantization c. compression d. vectorization Correct Answer: (c)
13.	is a lossy compression method for pictures and graphics, whereas is a lossy compression method for video. a. DCT, MPEG b. MPEG, JPEG c. JPEG, MPEG d. JPEG, DCT Correct Answer: (c)