

DIRECTIONS:

Circle the letter that corresponds to the one (1) best answer for each of the questions below.

Question 1: All functions of a computer are based upon the use and manipulation of numbers.

Which number system is most native to a computer?

- A. binary
- B. decimal
- C. hexadecimal
- D. octal

Question 2: What is the decimal conversion of the binary number 11011001?

- A. 221
- B. 193
- C. 217
- D. 192

Question 3: What is the hexadecimal conversion of the decimal number 224?

- A. F0
- B. E0
- C. 92
- D. 9E

Question 4: What is the decimal conversion of the hexadecimal number 7F?

- A. 115
- B. 134
- C. 201
- D. 127

Question 5: What is the binary conversion of the hexadecimal number CB?

- A. 10111001
- B. 11100001
- C. 11000100
- D. 11001011

Question 6: Which binary number represents the decimal number 133?

- A. 10001011
- B. 11000001
- C. 10000111
- D. 10000101

Question 7: What is the hexadecimal equivalent of the decimal number 241?

- A. E7
- B. D3
- C. F1
- D. A9

Question 8: What is the decimal value of the binary number 11111111?

- A. 0
- B. 64
- C. 192
- D. 255

Question 9: What is the definition of a bit?

- A. the section of a network that is bounded by bridges, routers, or switches
- B. a binary digit used in the binary number system, either 0 or 1
- C. the interface on an internetworking device, such as a router
- D. the network areas within which data packets that have collided are propagated

Question 10: Which of the following phrases best describes the decimal numbering system?

- A. It is also called the Base 100 Number System.
- B. It is based on powers of 1.
- C. It uses the 10 symbols 0 - 9.
- D. It is the same as the ASCII numbering system.

Question 11: Which numbering system is based on powers of 2?

- A. octal
- B. hexadecimal
- C. binary
- D. ASCII

Question 12: What is the decimal number 151 in binary?

- A. 10010111
- B. 10010110
- C. 10101011
- D. 10010011

Question 13: What is the binary number 11011010 in decimal?

- A. 218
- B. 202
- C. 222
- D. 186

Question 14: Convert the decimal number 43 to Hex.

- A. 2B
- B. 1F
- C. EF
- D. 1A

Question 15: Hexadecimal is used to represent what kind of addresses?

- A. IP
- B. Octal
- C. MAC
- D. Digital

Question 16: What is 16 raised to the first power (16^1)?

- A. decimal 1

- B. decimal 16
- C. hex FF
- D. hex 16

Question 17: Convert the decimal number 2989 to Hex.

- A. FDD1
- B. BAD
- C. ED
- D. CAD

Question 18: What is the decimal value of the hex number ABE?

- A. 2750
- B. 5027
- C. 2570
- D. 7250

Question 19: What is the hex value of the binary number 11100010?

- A. D2
- B. E2
- C. Gr
- D. H20

Question 20: Which numbering system is based on powers of 10?

- A. octal
- B. hexadecimal
- C. binary
- D. decimal