

# COMPUTER COMPETITIVE CHAPTER 07

## - ENG PART-2 - DATA REPRESENTATION & NUMBER SYSTEM

Total points 50/50 

**Minimum Passing Marks = 45**

STUDENT NAME \*

Viva

✓ 1. One megabyte is equal to approximately ..... \*

1/1

- 1000 bits
- 1000 bytes
- 1 million bytes
- 1 million bits
- 2000 bytes



✓ 2. How many options does a binary choice offer ? \*

1/1

- One
- Two ✓
- Three
- It depends on the amount of memory in the computer
- None of these

✓ 3. The ..... indicates how much data a particular storage medium can hold \*1/1

- Access
- Capacity ✓
- Memory
- Storage
- None of these

✓ 4. The smallest unit of information a computer can understand and process is known as ..... \*1/1

- Digit
- Kilobyte
- Bit ✓
- Byte
- None of these

✓ 5. A compute works on a ..... number system \*

1/1

- Binary
- Octal
- Decimal
- Hexadecimal
- None of these

✓

✓ 6. Computers use the ..... system to process data . \*

1/1

- Processing
- Kilobyte
- Binary
- Representational
- None of these

✓

✓ 7. Information on a computer is stored as .....

1/1

- Analog data
- Digital data
- Modem data
- Watts data
- None of these

✓

✓ 8. In the binary language each letter of the alphabet, each number and each special character is made up of a unique combination of ..... \*1/1

- Eight bytes
- Eight kilobytes
- Eight characters
- Eight bits
- None of these

✓

✓ 9. A string of eight 0s and 1s is called a..... \* 1/1

- Megabyte
- Kilobyte
- Gigabyte
- Byte
- None of these

✓

✓ 10. What is the hexadecimal equivalent of decimal 15? \* 1/1

- A) D
- B) E
- C) F
- D) 10

✓

✓ 11. Convert  $(1100)_2$  to decimal: \*

1/1

- A) 10
- B) 11
- C) 12
- D) 13

✓

✓ 12. 1 Kilobyte (KB) = \*

1/1

- A) 1000 bytes
- B) 1024 bits
- C) 1024 bytes
- D) 1000 bits

✓

✓ 13. Binary 10000 is equal to decimal: \*

1/1

- A) 8
- B) 10
- C) 16
- D) 20

✓

✓ 14. Which of the following is not a number system? \*

1/1

- A) Binary
- B) Decimal
- C) Symbolic
- D) Hexadecimal



✓ 15. The position of a digit in a number determines its: \*

1/1

- A) Value
- B) Base
- C) Weight
- D) Length



✓ 16. In Hexadecimal, what is the decimal value of (A)? \*

1/1

- A) 9
- B) 10
- C) 11
- D) 12



✓ 17. The binary number system is also known as: \*

1/1

- A) Base 2
- B) Base 8
- C) Base 10
- D) Base 16

✓

✓ 18. Octal number  $(17)_8$  is equal to decimal: \*

1/1

- A) 15
- B) 17
- C) 13
- D) 16

✓

✓ 19. Which one is **not** a valid binary number? \*

1/1

- A) 101
- B) 1101
- C) 210
- D) 1001

✓

✓ 20. The smallest unit of data in computer is: \*

1/1

- A) Byte
- B) Bit ✓
- C) Nibble
- D) Word

✓ 21.  $(1010)_2$  equals \_\_ in hexadecimal. \*

1/1

- A) A ✓
- B) B
- C) C
- D) D

✓ 22. The hexadecimal number  $(1A)_{16}$  equals \_\_ in decimal. \*

1/1

- A) 26 ✓
- B) 27
- C) 28
- D) 30

✓ 23. Convert 100101 in binary to decimal: \*

1/1

- A) 37
- B) 39
- C) 41
- D) 45



✓ 24. Which of the following is **not** a positional number system? \*

1/1

- A) Decimal
- B) Octal
- C) Binary
- D) Roman



✓ 25. Which base does the decimal system use? \*

1/1

- A) 2
- B) 10
- C) 8
- D) 16



✓ 26. ASCII stands for: \*

1/1

- A) American Standard Code for Information Interchange
- B) American Symbolic Code for Internal Integration
- C) Associated System Code for Information Input
- D) American System Code for Integrated Interface



✓ 27. In 8-bit ASCII, how many characters can be represented? \*

1/1

- A) 128
- B) 256
- C) 512
- D) 64



✓ 28. Unicode supports how many characters? \*

1/1

- A) 128
- B) 256
- C) 65,536
- D) 1,000



✓ 29. A group of 16 bits is called: \*

1/1

- A) Byte
- B) Nibble
- C) Word
- D) Double word

✓

✓ 30. How many bits are in 1 Megabyte (MB)? \*

1/1

- A) 1,048,576 bits
- B) 1,024 bits
- C) 8,388,608 bits
- D) 8,000 bits

✓

✓ 31. Which number system is used internally by computers? \*

1/1

- A) Decimal
- B) Octal
- C) Binary
- D) Hexadecimal

✓

✓ 32. How many symbols are used in binary system? \*

1/1

- A) 2
- B) 8
- C) 10
- D) 16

✓

✓ 33. Which of the following is used to represent characters in computers?

\*1/1

- A) BCD
- B) ASCII
- C) EBCDIC
- D) Both B and C

✓

✓ 34. Convert decimal 255 to binary: \*

1/1

- A) 11111100
- B) 11110000
- C) 11111111
- D) 11001111

✓

✓ 35. How is negative number represented in binary? \*

1/1

- A) 1's complement
- B) 2's complement
- C) Sign-magnitude
- D) All of the above

✓

✓ 36. Which is not a data representation form? \*

1/1

- A) Text
- B) Graphics
- C) Video
- D) Storage

✓

✓ 37. Convert hexadecimal (2F) to decimal: \*

1/1

- A) 46
- B) 47
- C) 48
- D) 49

✓

✓ 38. Which of the following converts high-level language to machine code?

\*1/1

- A) Compiler
- B) Assembler
- C) Interpreter
- D) All of these

✓

✓ 39. In 2's complement, 1111 represents which number in decimal (4-bit)?

\*1/1

- A) -1
- B) -2
- C) 15
- D) 14

✓

✓ 40. What is the binary equivalent of  $(3F)_{16}$ ? \*

1/1

- A) 111111
- B) 111110
- C) 101111
- D) 111100

✓

✓ 41. Which number system is also called base-16? \*

1/1

- A) Binary
- B) Octal
- C) Decimal
- D) Hexadecimal

✓

✓ 42. Which of the following represents characters in binary form? \*

1/1

- A) Unicode
- B) ASCII
- C) EBCDIC
- D) All of the above

✓

✓ 43. What is the decimal value of binary 11010? \*

1/1

- A) 24
- B) 25
- C) 26
- D) 27

✓

✓ 44. How many bits are required to represent a single ASCII character? \* 1/1

- A) 8
- B) 16
- C) 32
- D) 4

✓

✓ 45. In binary, what is the result of  $1011 + 1100$ ? \*

1/1

- A) 10111
- B) 10011
- C) 11011
- D) 11111

✓

✓ 46. What is the hexadecimal representation of binary  $11011010$ ? \*

1/1

- A) DA
- B) AB
- C) AD
- D) BD

✓

✓ 47. The process of converting from decimal to binary is known as: \* 1/1

- A) Encoding
- B) Decoding
- C) Conversion
- D) Digitization

✓

✓ 48. Convert octal 75 to decimal: \* 1/1

- A) 61
- B) 62
- C) 61
- D) 65

✓

✓ 49. Which is the odd one out? \* 1/1

- A) Bit
- B) Byte
- C) Nibble
- D) Node

✓

- A) 1010.01
- B) 1010.1
- C) 1010.10
- D) 1011.01



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