

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



✓ 50. The binary equivalent of decimal 10.25 is: *

1/1

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



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