

# COMPUTER

## Computer Number System Worksheet for MAH MCA CET 2025

For students preparing for MCA Entrance Exam

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- Binary number 101110110 is equal to decimal number \_\_\_\_\_.
  - 468
  - 412
  - 374
  - 326
- What is the binary number for decimal number 9?
  - 1100
  - 1001
  - 0111
  - 1011
- What is the value of the binary number 101?
  - 3
  - 5
  - 6
  - 101
- Decimal equivalent of  $(1111)_2$ , is
  - 11
  - 10
  - 1
  - 15
- Which of the following is not a binary number?
  - 001
  - 101
  - 202
  - 110
- The number system based on '0' and '1' only, is known as
  - binary system
  - barter system
  - number system
  - hexadecimal system
- Binary system is also called
  - base one system
  - base two system
  - base system
  - binary system
- Which of the following is an example of binary number?
  - 6AH1
  - 100101
  - 005
  - ABCD
  - 23456
- Numbers that are written with base 10 are classified as
  - decimal number
  - whole number
  - hexadecimal number
  - exponential integers
- Decimal number system is the group of \_\_\_\_ numbers.
  - 0 or 1
  - 0 to 9
  - 0 to 7
  - 0 to 9 and A to F
- The octal system
  - needs less digits to represent a number than in the binary system
  - needs more digits to represent a number than in the binary system
  - needs the same number of digits to represent a number as in the binary system

- D. needs the same number of digits to represent a number as in the decimal system
12. A hexadecimal number is represented by  
 A. three digits  
 B. four binary digits  
 C. four digits  
 D. All of these
13. Hexadecimal number system has \_\_\_\_\_ base.  
 A. 2  
 B. 8  
 C. 10  
 D. 16
14. Hexadecimal number system consists of  
 A. 0 to 9  
 B. A to F  
 C. Both '1' and '2'  
 D. Either '1' or '2'
15. A hexadigit can be represented by  
 A. three binary (consecutive) bits  
 B. four binary (consecutive) bits  
 C. eight binary (consecutive) bits  
 D. sixteen binary (consecutive) bits
16. Which of the following is invalid hexadecimal number?  
 A. A0XB  
 B. A0F6  
 C. 4568  
 D. ACDB
17. What type of information system would be recognised by digital circuits?  
 A. Hexadecimal system  
 B. Binary system  
 C. Both '1' and '2'  
 D. Only roman system
18. The binary equivalent of decimal number 98 is  
 A. 1110001  
 B. 1110100  
 C. 1100010  
 D. 1111001
19. Conversion of decimal number  $(71)_{10}$ , to its binary number equivalent is  
 A.  $(110011)_2$   
 B.  $(1110011)_2$   
 C.  $(0110011)_2$   
 D.  $(1000111)_2$
20. Conversion of decimal number  $(61)_{10}$ , to its binary number equivalent is  
 A.  $(110011)_2$   
 B.  $(11001110)_2$   
 C.  $(111101)_2$   
 D.  $(11111)_2$
21. In the binary language, each letter of the alphabet, each number and each special character is made up of a unique combination of  
 A. 8 bytes  
 B. 8 KB  
 C. 8 characters  
 D. 8 bits
22. To perform calculation on stored data computer, uses \_\_\_\_\_ number system.  
 A. decimal  
 B. hexadecimal  
 C. octal  
 D. binary
23.  $(1010)_2$ , equivalent decimal number is  
 A. 8  
 B. 9  
 C. 10  
 D. 11
24. The binary number 10101 is equivalent to decimal number \_\_\_\_\_.  
 A. 19  
 B. 12  
 C. 27  
 D. 21
25. Which of the following is octal number equivalent to binary number  $(110101)_2$   
 A. 12  
 B. 65  
 C. 56  
 D. 1111
26. Which of the following is a binary number equivalent to octal number  $(.431)_8$   
 A.  $(100011001)_2$   
 B.  $(.100011001)_2$

- C.  $(100110100)_2$   
D.  $(.100110001)_2$
27. To convert binary number to decimal, multiply the all binary digits by power of  
A. 0  
B. 2  
C. 4  
D. 6
28. Which of the following is hexadecimal number equivalent to binary number  $(1111\ 1001)_2$ ?  
A. 9F  
B. FF  
C. 99  
D. F9
29. Conversion of binary number  $(1001001)_2$  to hexadecimal is  
A.  $(40)_{16}$   
B.  $(39)_{16}$   
C.  $(49)_{16}$   
D.  $(42)_{16}$
30. Conversion of binary number  $(101110)_2$  to hexadecimal is  
A.  $(35)_{16}$   
B.  $(46)_{16}$   
C.  $(2E)_{16}$   
D.  $(50)_{16}$
31. Which of the following is the correct binary form of  $(4A2.8D)_{16}$ ?  
A.  $(010010100010.10001101)_2$   
B.  $(010110100010.11101101)_2$   
C.  $(011110100010.10001101)_2$   
D.  $(010010111110.10001101)_2$
32. Which of the following is an octal number equal to decimal number  $(896)_{10}$ ?  
A. 0061  
B. 6001  
C. 1006  
D. 1600
33. Conversion of decimal number  $(42)_{10}$  to its octal number equivalent is  
A.  $(57)_8$   
B.  $(42)_8$   
C.  $(47)_8$   
D.  $(52)_8$
34. Determine the octal equivalent of  $(432267)_{10}$   
A.  $(432267)_8$   
B.  $(346731)_8$   
C.  $(2164432)_8$   
D. None of these
35. Determine the decimal equivalent of  $(456)_8$   
A.  $(203)_{10}$   
B.  $(302)_{10}$   
C.  $(400)_{10}$   
D.  $(402)_{10}$
36. Conversion of octal number  $(3137)_8$  to its decimal equivalent is  
A.  $(1631)_{10}$   
B.  $(1632)_{10}$   
C.  $(1531)_{10}$   
D.  $(1931)_{10}$
37. There are how many types of number system?  
A. One  
B. Two  
C. Three  
D. Four
38. Modern computers represent characters and numbers internally using one of the following number systems.  
A. Penta  
B. Octal  
C. Binary  
D. Septa

## Answer Key

1. C	2. B	3. B	4. D	5. C	6. A	7. B	8. B	9. A	10. B
11. A	12. B	13. D	14. C	15. D	16. A	17. C	18. C	19. D	20. C
21. D	22. D	23. C	24. D	25. B	26. B	27. B	28. D	29. C	30. C
31. A	32. D	33. D	34. D	35. B	36. A	37. D	38. C		

