

Number System

1. What is the base of hexadecimal Number system?
1) 10 2) 2 3) 8 4) 16
2. If $P=1011_2$ and $Q=1110_2$ what is the result of $P+Q$?
1) 11001 2) 10001 3) 10111 4) 01011
3. If $A=1000_2$ and $B=11_2$ what is the result of $A-B$?
1) 0101 2) 1101 3) 0100 4) 1001
4. Binary equivalent of decimal 96 is?
1) 1110000 2) 1100001 3) 1100000 4) 1100011
5. The decimal value of the binary 1010011 is
1) 83 2) 84 3) 81 4) 82
6. What is the octal equivalent of the decimal 432?
1) 640_8 2) 660_8 3) 720_8 4) 6658
7. What is the Hexadecimal equivalent of the decimal 220?
1) CD_{16} 2) $AD0_{16}$ 3) $DC0_{16}$ 4) $DC16$
8. What is the decimal value of the hexadecimal $FB2_{16}$?
1) 4015 2) 4018 3) 4000 4) 4081
9. The binary 11011011 is equivalent to the octal is?
1) 664_8 2) 663_8 3) 333_8 4) 6658
10. Which of the following number is larger
a) 25_{10} b) 11000_2 c) 35_8 d) 1016
11. The number of bits used by the ASCII coding scheme is
a) 6 b) 7 c) 8 d) 16
12. The most significant bit(MSB) and the least significant bit(LSB) of the binary number 010011
a) 0 and 0 b) 1 and 0 c) 0 and 1 d) 1 and 1

13. The value of 34_8 is equivalent to
a) 11100_2 b) 28_{10} c) 110100_2 d) A and B
14. The decimal equivalent of 11001_2 is
a) 31 b) 25 c) 16 d) 20
15. The binary equivalent of the hexadecimal number AB_{16} is
a) 10101011 b) 10111010 c) 11111000 d) 11101111
16. The decimal equivalent of the binary number 10100101 is
1) 166 2) 165 3) 167 4) 168
17. The binary equivalent of the decimal number 144 is
1) 10010000 2) 10010001 3) 10010011 4) 11010000
18. Which of the following are the same value
A) $5DE_{Hex}$ B) 1501 C) 2736_{Octal}
(1) A and C only (2) A and B only (3) A,B and C (4) None of the above
19. Find the LSB and MSB of the decimal number 129 respectively
1) 1 and 0 2) 0 and 1 3) 0 and 0 4) 1 and 1
20. A teacher enters the marks of the student to the computer using the keyboard Maths = 60, Science = 68. This total marks is represented in RAM of the computer in **binary** form so it will be stored in RAM is
1) 10000000_2 2) 10000001_2 3) 11000000_2 4) 10000002
21. The decimal value for the BCD coded number 01010010 is
1) 82 2) 10 3) 52 4) 53
22. How many bits are needed to represent the decimal 4562 in BCD system?
1) 4 bits 2) 12 bits 3) 16 bits 4) 8 bits
23. Which of the following encoding is invalid in BCD coding system?
1) 1000 2) 1001 3) 1100 4) 0111
24. The decimal number 54 is represented 0110101 0110100 as in ASCII (7 bit) coding system what would be the representation code for the decimal number 63
1) 0110110 0110011 2) 0110111 0110011
3) 0110111 0110001 4) 0100110 0100011