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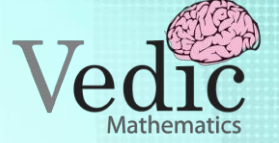
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1) There are how many types of number system?

- a) One b) Two c) Three d) Four

2) Modern computers represent characters and numbers internally using one of the following number systems

- a) Penta b) Octal
c) Hexa d) Septa
e) Binary

3) 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

4) To perform calculation on stored data computer, uses Number system

- a) Decimal b) Hexadecimal
c) Octal d) Binary

5) Which of the following is not a binary number?

- a) 001 b) 101 c) 202 d) 110

6) The number system based on '0' and '1' only, is known as

- a) Binary system
b) Barter system
c) Number system
d) Hexadecimal system

7) Binary system is also called

- a) Base one system
b) Base two system
c) Base system
d) Binary system

8) Which of the following is an example of binary number?

- a) 6AH1 b) 100101
c) 005 d) ABCD

9) Numbers that are written with base 10 are classified as

- a) Decimal number
b) Whole number
c) Hexadecimal number
d) Exponential integers
e) Mantissa

10) Decimal number system is the group of numbers

- a) 0 or 1
b) 0 or 9
c) 0 or 7
d) 0 to 9 and A to F

11) The octal system

- a) Needs less digits to represent a number than in the binary system
b) Needs more digits to represent a number than in the binary system
c) 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 a and b d) Either a or b

15) A hexadigit can be represented by





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- a) Three binary (Consecutive) bits
- b) Four binary (Consecutive) bits
- c) Eight binary (Consecutive) bits
- d) Sixteen binary (Consecutive) bits
- e) None of the above

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 a and b
- 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) $(1000111)_2$
- e) None of these

20) What is the value of the binary number 101?

- a) 3
- b) 5
- c) 6
- d) 101

21) Decimal equivalent of $(1111)_2$ is

- a) 11
- b) 10
- c) 1
- d) 15
- e) 13

22) The decimal equivalent of binary number $(1010)_2$ is

- a) 8
- b) 9
- c) 10
- d) 11

23) The binary number 10101 is equivalent to decimal number

- a) 19
- b) 12
- c) 27
- d) 21

24) Which of the following is octal number equivalent to binary number $(110101)_2$?

- a) 12
- b) 65
- c) 56
- d) 1111

25) Which of the following is a binary number equivalent to octal number $(.431)_8$?

- a) $(100011001)_2$
- b) $(.100011001)_2$
- c) $(100110100)_2$
- d) $(.100110001)_2$

26) To covert binary number to decimal, multiply the all binary digits by power of

- a) 0
- b) 2
- c) 4
- d) 6

27) Which of the following is hexadecimal equivalent to binary number $(1111\ 1001)_2$?

- a) 9F
- b) FF
- c) 99
- d) F9

28) Conversion of binary number 01001001_2 to hexadecimal is

- a) $(40)_{16}$
- b) $(39)_{16}$
- c) $(49)_{16}$
- d) $(42)_{16}$

29) 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) $(010010111110.10001101)_2$
- e) None of the above

30) Which of the following is an octal number equal to decimal number $(896)_{10}$?

- a) 0061
- b) 6001
- c) 1006
- d) 1600

31) Conversation of decimal number $(42)_{10}$ to its octal number equivalent to

- a) $(57)_8$
- b) $(42)_8$
- c) $(47)_8$
- d) $(52)_8$

32) Determine the octal equivalent of $(432267)_{10}$





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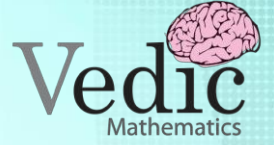
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- a) $(432267)_8$
c) $(2164432)_8$

- b) $(346731)_8$
d) None of these

- c) Large Significant Digit
d) Longer Significant Digit

33) Determine the decimal equivalent of $(456)_8$

- a) $(203)_{10}$ b) $(302)_{10}$
c) $(400)_{10}$ d) $(402)_{10}$

34) Conversion of octal number $(3137)_8$ to its decimal equivalent is

- a) $(1631)_{10}$ b) $(1632)_{10}$
c) $(1531)_{10}$ d) $(1931)_{10}$

35) Conversion of decimal number $(15)_{10}$ to hexadecimal number is

- a) $(14)_{16}$ b) $(13)_{16}$
b) $(F)_{16}$ d) $(7F)_{16}$

36) Which of the following is a hexadecimal number equal to 3431 octal number?

- a) 197 b) 917 c) 791
c) 971 d) 719

37) The method used for the conversion of octal to decimal fraction is

- a) Digit id divided by 8
b) Digit is multiplied by the corresponding power of 8
c) Digit is added with 8
d) Digit is subtracted with 8

38) MSD refers as

- a) Most Significant Digit
b) Many Significant Digit
c) Multiple Significant Digit
d) Most Significant Decimal

39) LSD stands for

- a) Long Significant Digit
b) Least Significant Digit

Directions (40 and 41) : Triangle represents $\Delta(1)$ and circle represents 0 (0). If triangle appears in unit's place then its value is 1. If it appears in 10's place its value is doubled to 2 like that it continues. Using the given terminology answer the following questions.

For example,

$$\Delta = 1$$

$$\Delta 0 \Delta = 4, 0, 1 = 4 + 0 + 1$$

$$\Delta 0 = 2$$

40) How will you represent '87' in this code language?

- a) $\Delta \Delta \Delta 0 \Delta \Delta$ b) $\Delta 0 \Delta 0 \Delta \Delta \Delta$
c) $\Delta \Delta 0 \Delta \Delta \Delta \Delta$ d) $\Delta 0 0 \Delta 0 0 \Delta$
e) $\Delta \Delta 0 \Delta \Delta \Delta 0$

41) What will be the code for $\Delta \Delta 0 0 0 \Delta 0$?

- a) 98 b) 95 c) 96 d) 94 e) 99

42) How many values can be represented by a single byte?

- a) 4 b) 16 c) 64 d) 256

43) Which of the following is not a computer code?

- a) EBCDIC b) ASCII
c) CISC d) UNICODE

44) ASCII stands for

- a) American Special Computer for Information Interaction
b) American Standard Computer for Information Interchange
c) American Special Code for Information Interchange
d) American Special Computer for Information Interchange





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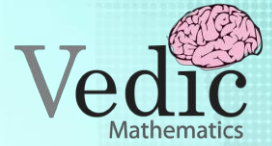
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e) American Standard Code for Information Interchange

45) The most widely used code that represents each character as a unique 8 – bit code is

- a) ASCII b) UNICODE
c) BCD d) EBCDIC

46) Today's mostly used coding system is / are

- a) ASCII b) EBCDIC
c) BCD d) both a and b

47) In EBCDIC code, maximum possible character set size is

- a) 356 b) 756 c) 556 d) 256

48) Code 'EBCDIC' that is used in computing stands for

- a) Extension BCD Information Code
b) Extended BCD Information Code
c) Extension BCD Interchange Conduct
d) Extended BCD Interchange Conduct

49) Most commonly used codes for representing bits are

- a) ASCII b) BCD
c) EBCDIC d) All of these

50) The coding system allows non – English characters and special characters to be represented

- a) ASCII b) UNICODE
c) EBCDIC d) All of these

51) Which of the following character set supports Japanese and Chinese fonts?

- a) EBCDIC b) ASCII
c) BC
d) ECBI e) UNICODE

52) Two inputs A and B of NAND gate have 0 output if

- a) A is 0 b) B is 0
c) Both are zero d) Both are 1

53) Gate having output 1 only when one of its input is 1 is called

- a) AND b) NOT c) OR d) NOR

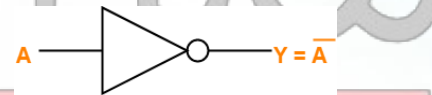
54) gate is also known as inverter

- a) OR b) NOT c) XOR d) NAND

55) The only function of NOT gate is to

- a) Stop signal
b) Invert input signal
c) Act as a universal gate
d) Double input signal

56) Following diagram depicts which logic gate?



- a) NOR gate b) NOT gate
c) OR gate d) NAND gate
e) None of these

57) The NAND gate is AND gate followed by

- a) NOT gate b) OR gate
c) AND gate d) NOR gate

58) The NOR gate is OR gate followed by

- a) AND gate b) NAND gate
c) NOT gate d) OR gate

59) The NOR gate output will be high if the two inputs are

- a) 00 b) 01 c) 10 d) 11

60) Which of the following are known as universal gates?





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- a) NAND and NOR b) AND and OR
c) XOR and OR d) AND

61) Gate whose output is 0 only when inputs are different is called

- a) XOR b) XNOR c) NOR d) NAND

62) If Δ represents '1' and 0 represents '0'. What will be the one's complement of $0\Delta\Delta 00\Delta$?

- a) 011001 b) 100110
c) 101010 d) 000000
e) 111111

