Selvam College of Technology

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Name of the Bundle	Basic Bundle (2024)	Subject	Ice Breaking for Programming
Topic	Number Systems	Last updated on	08 April 2024

1.What is a base 2 number system?

   a. Decimal

   b. Binary

   c. Octal

   d. Hex

Ans: b. binary

2.What is the decimal equivalent of the binary number 1100?

   a. 10

   b. 11

   c. 12

   d. 15

Ans: c.12

3.What is the decimal equivalent of the octal number 12?

   a. 10

   b. 11

   c. 12

   d. 14

Ans: a.10

4.What is the decimal equivalent of the hex number 1E?

   a. 10

   b. 20

   c. 30

   d. 40

Ans: c.30

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5.What is the octal equivalent of the decimal number 40?

    a. 22

    b. 32

    c. 34

    d. 45

Ans: b.32

6.What is the hex equivalent of the decimal number 100?

    a. 60

    b. 50

    c. 64

    d. 55

Ans: c.64

7.What is the octal equivalent of the decimal number 80?

    a. 130

    b. 200

    c. 150

    d. 120

Ans: d.120

8.Which number system is suitable for using inside a computer?

    a. Decimal

    b. Octal

    c. Binary

    d. Hexa

Ans: c. Binary

9. What are the digits used in the binary number system?

    a. 0-1

    b. 0-3

    c. 0-8

    d. 0-2

Ans: a.0-1

10. What are the digits used in the Octal number system?

    a. 0-1

    b. 0-7

    c. 0-8

    d. 0-10

Ans: b.0-7

11. What are the digits used in the hexadecimal number system?

    a. 0-1

    b. 0-9

    c. 0-9,A-F

    d. A-F

    Ans: c. 0-9,A-F

12. What are the digits used in the decimal number system?

    a. 0-9

    b. 0-10

    c. 1-10

    d. 0-F

Ans: a.0-9

13. What is a binary digit called?

    a. Binary

    b. Bit

    c. Bin

    d. Digit

Ans: b. Bit

14. What can be stored in a bit?

    a. only 1

    b. 1 or 0

    c. 0 to 9

    d. A to F

Ans: b. 1 or 0

15. What is a group of 4 bits called?

    a. Bit

    b. Byte

    c. Nibble

    d. Word

Ans: c. Nibble

16. What is a group of 8 bits called?

    a. Bit

    b. Byte

    c. Nibble

    d. Word

Ans: b.Byte

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17. How much is a Kilobyte (KB)?

    a. 1,000 bytes

    b. 1,024 bytes

    c. 10,000 bits

    d. 100 bytes

Ans: b.1,024 bytes

18. How much is a Megabyte (MB)?

    a. 1,000 Kilobytes

    b. 1,000 bytes

    c. 1,024 kilobytes

    d. 10,000 bytes

Ans: c.1,024 kilobytes

19. How much is a Gigabyte (GB)?

    a. 100 Megabytes

    b. 1,024 Megabytes

    c. 10000 Kilobytes

    d. 1000 Megabytes

Ans: b.1,024 Megabytes

20. What is left most bit of a byte called?

    a. Most Significant Bit

    b. Left Most Bit

    c. Max left Bit

    d. Major Signal Bit

Ans: a. Most Significant Bit

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21. What is right most bit of a byte called?

  a. Right Most Bit

  b. Min Right Bit

  c. Least Significant Bit

  d. Minor Sign Byte

Ans: c. Least Significant Bit

22. How do you call the type of the value a variable can hold and the operations applied to it?

  a. Range of Data

  b. Data Type

  c. Variable type

  d. Value

  Ans: b. Data Type

23. Number without fraction is called......

  a. Fractional Number

  b. Integer

  c. Constant

  d. Variable

Ans: b. Integer

24. Number with fraction is called ....

  a. Integer number

  b. Floating point number

  c. Character

  d. Boolean number

Ans: b. Floating point number

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25. A single letter, digit, special character or space is called....

   a. Character

   b. Integer

   c. Floating point

   d. Variable

Ans: a. Character

26. What is a sequence of character called?

   a. String

   b. Character

   c. Letters

   d. Alphanumeric

Ans: a. String

27. Which data type has True or False values?

   a. Integer

   b. Character

   c. String

   d. Boolean

Ans: d. Boolean

28. What type of data is 7?

   a. Integer

   b. Floating point

   c. Character

   d. Boolean

Ans: a.Integer

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29. What type of data is 7.0?

    a. Integer

    b. Floating point

    c. Character

    d. Boolean

Ans: b. Floating point

30. What type of data is "a"?

    a. Integer

    b. Floating point

    c. Character

    d. Boolean

Ans: c. Character

31. What type of data is 'True'?

    a. Integer

    b. Floating point

    c. Character

    d. Boolean

Ans: d. Boolean

32. What type of data is 'Python'?

    a. Integer

    b. Floating point

    c. String

    d. Boolean

Ans: c. String

33. What kind of integer can be positive or negative?

    a. Signed integer

    b. Positive integer

    c. Negative integer

    d. Sigle integer

Ans: a. Signed integer

34. What integer stores only positive integers?

    a. floating point number

    b. Unsigned integer

    c. Positive integer

    d. Negative integer

Ans: b. Unsigned integer

35. How many bits are allocated for the sign in a signed bit?

    a. 2 bits

    b. Half of the byte

    c. 0 bits

    d. 1 bit

Ans: d. 1 bit

36. What does a '1' in sign bit mean?

    a. The number is invalid

    b. The number is negative

    c. The number is too big

    d. The number has fractions

Ans: b. The number is negative

37. What does a '0' in sign bit mean?

   a. The number is invalid

   b. The number is positive

   c. The number is too small

   d. The number has no fractions

Ans: b. The number is positive

38. Which number can hold bigger numbers: signed or unsigned?

   a. Signed

   b. Unsigned

   c. Both A & B

Ans: b. Unsigned

39. The inverted Binary number is called a ......

   a. Signed number

   b. 1's complement

   c. Unsigned number

   d. real number

Ans: b. 1's complement

40. What is the 1's complement of 1010?

   a. 1001

   b. 0101

   c. 0000

   d. 1111

Ans: b. 0101

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41. If you take 1's complement and add 1 to its last bit it becomes...

   a. Unsigned number

   b. Positive number

   c. Strong Number

   d. 2's complement

Ans: d. 2's complement

42. What is the 2's complement of 1010?

   a. 1111

   b. 0110

   c. 0101

   d. 0011

Ans: b. 0110

43. How do you store a negative number inside a computer?

   a. As an integer

   b. As a floating-point number

   c. As a fractional number

   d. As 2's complement number

Ans: d. As 2's complement number