

Q.1 Multiple Choice Questions. Choose the correct answer.

- If $a^x = n$, then _____
 (a) $a = \log_x n$ (b) $x = \log_n a$
 (c) $x = \log_a n$ (d) $a = \log_n x$
- The relation of $y = \log_z x$ implies
 (a) $x^y = z$ (b) $z^y = x$
 (c) $x^z = y$ (d) $y^z = x$
- The logarithm of unity to any base is
 (a) 1 (b) 10
 (c) e (d) 0
- The logarithm of any number to itself as base is ____
 (a) 1 (b) 0
 (c) -1 (d) 10
- $\log e = ____$ where $e \approx 2.718$
 (a) 0 (b) 0.4343
 (c) ∞ (d) 1
- The value of $\log\left(\frac{p}{q}\right)$ is ____
 (a) $\log p - \log q$ (b) $\frac{\log p}{\log q}$
 (c) $\log p + \log q$ (d) $\log q - \log p$
- $\log p - \log q$ is same as:
 (a) $\log\left(\frac{q}{p}\right)$ (b) $\log(p - q)$
 (c) $\frac{\log p}{\log q}$ (d) $\log\frac{p}{q}$
- $\log m^n$ can be written as
 (a) $(\log m)^n$ (b) $m \log n$
 (c) $n \log m$ (d) $\log(mn)$
- $\log_b a \times \log_c b$ can be written as ____
 (a) $\log_c a$ (b) $\log_a c$
 (c) $\log_a b$ (d) $\log_b c$
- $\log_y x$ will be equal to ____
 (a) $\frac{\log_z x}{\log_y z}$ (b) $\frac{\log_x z}{\log_y z}$
 (c) $\frac{\log_z x}{\log_z y}$ (d) $\frac{\log_z y}{\log_z x}$
- For common logarithm, the base is_
 (a) 2 (b) 10
 (c) e (d) 1
- For natural logarithm, the base is__
 (a) 10 (b) e
 (c) 2 (d) 1
- The integral part of the common logarithm of a number is called the_
 (a) Characteristic (b) Mantissa
 (c) Logarithm (d) None
- The decimal part of the common logarithm of a number is called the ____:
 (a) Characteristic (b) Mantissa
 (c) Logarithm (d) None
- If $x = \log y$, then y is called the _____ of x.
 (a) Antilogarithm (b) Logarithm
 (c) Characteristic (d) None
- 30600 in scientific notation is __
 (a) 3.06×10^4 (b) 3.006×10^4
 (c) 30.6×10^4 (d) 306×10^4
- 6.35×10^6 in ordinary notation is ____
 (a) 6350000 (b) 635000
 (c) 6350 (d) 63500
- A number written in the form $a \times 10^n$, where $1 \leq a < 10$ and n is an integer is called ____
 (a) Scientific notation (b) Ordinary notation
 (c) Logarithm notation (d) None
- The idea of logarithm is given by
 (a) Arther cayley (b) Henry
 (c) Euler (d) john Napier
- $\log_a m - \log_a n$ is same as:
 (a) $\log_a(m + n)$ (b) $\log_a m \times n$
 (c) $\log_a m \times \log_a n$ (d) $\log_a \frac{m}{n}$
- John Napier prepared the logarithms tables to the base _____.
 (a) 0 (b) 1
 (c) 10 (d) e

Additional MCQ

22. \log_2^3 in common logarithm is written as

_____.

(a) $\frac{\log 3}{\log 2}$

(b) $\frac{\log 2}{\log 3}$

(c) $\frac{\log 3}{2}$

(d) $\log 2^3$

23. $\log_e 10 =$ _____

(a) 2.3026

(b) 0.4343

(c) e^{10}

(d) 10

24. If $\log_2^x = 5$ then x is:

(a) 25

(b) 32

(c) 10

(d) 2^{5x}

1	c	2	b	3	d	4	a	5	b	6	a	7	d	8	c
9	a	10	c	11	b	12	b	13	a	14	b	15	a	16	a
17	a	18	a	19	d	20	d	21	d	22	a	23	a	24	b

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