REAL NUMBERS

CLASS 10

Choose the correct option.

1 The prime factorization of a natural number is $2^3 \times 3^2 \times 5^2 \times 7$. How many consecutive zeros will it have at the end?

- A 1
- B 2
- C 3
- D 4

2 Find the value of $\log_{55} 125$.

- A 2
- B 3
- C 4
- D 5

$\log_5 125 = ?$

3 Which of the following is an irrational number?

- A $\frac{3}{4}$
- B 0.25
- C $\sqrt{7}$
- D 0.333...

4 The HCF of 24 and 33 is:

- A 1
- B 3
- C 6
- D 9

HCF of 24 and 33

5 Expand $\log_{10} 385$.

- A $\log 5 + \log 7 + \log 11$
- B $\log 35 + \log 11$
- C $\log 3 + \log 85$
- D $\log 385 - \log 10$

LOG RULES

6 The value of $\log_{\sqrt{2}} 128$ is:

- A 7
- B 14
- C 21
- D 28

$\log_{\sqrt{2}} 128 = ?$

7 Which decimal number is terminating?

- A $\frac{11}{7000}$
- B $\frac{91}{21000}$
- C $\frac{21}{9000}$
- D $\frac{343}{2^3 \times 5^3 \times 7^3}$

0.125

8 If $\log_{10} 2 + \log_{10} 5$, the value is:

- A 1
- B 2
- C 5
- D 10

2 + 5

$\log(a) + \log(b) = \log(ab)$

9 The exponential form of $\log_{10} 0.001 = -3$ is:

- A $10^{-3} = 0.001$
- B $10^{3} = 0.001$
- C $(-3)^{10} = 0.001$
- D $0.001^{10} = -3$

$10^{-3} = 0.001$

10 If $\log_{10} 2 = 0.3010$, then $\log_{10} 32$ equals:

- A 0.3010
- B 1.5050
- C 2.3010
- D 5.3010

$\log_{10} 2 = 0.3010$

Find $\log_{10} 32 = ?$

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