

CHOOSE THE CORRECT OPTION:

1. The decimal expansion of number $\frac{441}{2^2 \times 5^3 \times 7}$ has.
- A. Non – terminating repeating decimal B. Terminating decimal C. Non – terminating and non – repeating decimal D. None of these
2. 0.515115111511115 is.
- A. An irrational number B. A rational number C. An integer D. A Prime number
3. The decimal expansion of $\frac{987}{10500}$ will terminate after.
- A. 3 decimal place B. 1 decimal places C. 2 decimal places D. None of these
4. The decimal expansion of $\frac{21}{24}$ will terminate after.
- A. 1 decimal place B. 2 decimal places C. 3 decimal places D. None of these
5. For what value of m and n is $\frac{241}{4000} = \frac{241}{2^m \times 5^n}$
- A. m =3 and n=2 B. m=4 and n=5 C. m=5 and n=3 D. m=2 and n=5
6. If $9^{x+2} = 240 + 9^x$, then find the value of 'x' is:
- A. 0.2 B. 0.1 C. 0.3 D. 0.5
7. The multiplicative inverse of zero is:
- A. $\frac{1}{0}$ B. 1 C. 0 D. Does not exist
8. The prime factors of 196 are:
- A. 2×7^2 B. 2×7 C. $2^2 \times 7$ D. $2^2 \times 7^2$
9. The exponent of 3 in the prime factorization of 864 is:
- A. 3 B. 4 C. 5 D. 8
10. Which of the following numbers is a prime numbers?
- A. 253 B. 233 C. 147 D. 377
11. $7 \times 11 \times 13 + 13$ is a/an.
- A. Prime number B. Odd number but not composite
C. Composite number D. None of these