

- a) 3 b) 1
c) $\bar{2}$ d) $\bar{3}$

Considering the number 0.0225 answer to the following questions No. (20 – 22):

20. Which one of the following is in the form a^n ?
- a) $(2.5)^2$ b) $(0.015)^2$
c) $(1.5)^2$ d) $(0.15)^2$
21. Which one the following is the scientific form of the number?
- a) 225×10^{-4} b) 22.5×10^{-3}
c) 2.25×10^{-2} d) 0.225×10^{-1}
22. What is the characteristic of the common log of the number?
- a) $\bar{2}$ b) $\bar{1}$
c) 0 d) 2
23. What is the characteristic of the common log of (0.00035)?
- a) 3 b) 1
c) 2 d) 3
24. For convenience, very large or small number is expressed in the scientific form as -
- i. $a \times 10^n$ such that $1 \leq a < 10$ and $n \in \mathbb{N}$.
ii. $a \times 10^n$ such that $1 \leq n < 10$ and $a \in \mathbb{Z}$.
iii. $a \times 10^n$ such that $0 \leq a < 10$ and $n \in \mathbb{Z}$.
- Identify the correct option on the basis of the above information
- a) I b) ii
c) iii d) i, ii and iii
25. What are the characteristics of log 0.0768?
- a) 0.885 b) 0.115
c) $\bar{2}$ d) 1
26. What is the characteristic of common logarithm of 0.0035?
- a) 3 b) 1
c) $\bar{2}$ d) $\bar{3}$
27. Which one is the scientific form of the number 0.0225?
- a) 225×10^{-4} b) 22.5×10^{-3}
c) 2.25×10^{-2} d) 22.5×10^{-1}

28. What is the condition to write the number of $p \times 10^m$?
- a) $1 < p < 10$ b) $1 \leq p < 10$
c) $1 \leq p \leq 10$ d) $1 < p \leq 10$

29. Which one is the following being the scientific form of the number?
- a) 125×10^{-4} b) 12.5×10^{-3}
c) 1.25×10^{-2} d) 125×10^{-1}
30. Which one is the scientific form of the number of the following?
- a) 51.2×10^{-4} b) 5.12×10^{-4}
c) 512×10^{-3} d) 0.512×10^{-3}
31. Which one is the scientific form of 0.0225?
- a) 225×10^{-4} b) 22.5×10^{-3}
c) 2.25×10^{-2} d) 225×10^{-1}

Answer to the questions no. (32 - 33) with the information given below:

0.000567 is a decimal number.

32. Which one is the scientific form of the number?
- a) 567×10^{-4} b) 56.7×10^{-5}
c) 5.67×10^{-4} d) 0.56×10^{-5}
33. What is the characteristic of the common log of the number?
- a) 4 b) 3
c) $\bar{3}$ d) $\bar{4}$
34. Which of the following number is written standard scientific form?
- a) 55.70×10^2 b) 5.570×10^3
c) 0.5570×10^4 d) 557×10^1
35. The standard form of the scientific number is $a \times 10^n$ then Which of the following is correct limit of the value of a?
- a) $-10 < a < 10$ b) $1 \leq a < 10$
c) $1 \leq a \leq 10$ d) $a > 10$
36. If the distance between the Sun and Venus is 105600000 then which of the following is standard form of the distance?
- a) 1.56×10^{-8} b) 1.056×10^{-7}
c) 1.056×10^8 d) 1.56×10^8