

11. In any measurement the significant figures are

- A. all accurately known and all doubtful digits B. only accurately known digits
- C. only doubtful digits D. all accurately known digits and the first doubtful digit

Answer: Option D
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12. A digit zero in a measurement

- A. may be significant may not significant B. always significant
- C. always insignificant D. significant only if left to a significant figure

Answer: Option A
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13. Number of significant figures in 0.0173 are

- A. three B. four
- C. five D. two

Answer: Option A
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14. Smaller the least count of the instrument more is the measurement

- A. accurate B. precise
- C. accurate and precise D. none of these

15. The dimension of force is

- A. MLT^{-1} B. MLT^{-2}
- C. $ML^{-1}T$ D. $ML^{-1}T^{-2}$

Answer: Option B
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16. $ML^{-1}T^{-2}$ is the dimension of

- A. force B. pressure

C. momentum

D. energy

Answer: Option B
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17. Dimensional analysis is helpful for

A. deriving a possible formula

B. checking the homogeneity of a physical equation

C. verification of laws

D. only a and b are correct

Answer: Option D
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18. Which equation is not dimensionally correct?

A. $E=mc^2$

B. $V_f=V_i+at$

C. $S=Vt^2$

D. $S=1/2at^2$

Answer: Option C
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19. SI unit of coefficient of viscosity is

A. Kg.m.S^{-1}

B. $\text{Kg m}^{-1}.\text{S}^{-1}$

C. Kg.m.S

D. $\text{Kg}^{-1}.\text{m}^{-1}.\text{S}^{-1}$

Answer: Option B
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20. Three students measured length of a needle with meter rod and recorded as :
(i) 0.2145m (ii) 0.21m (iii) 0.214m Which one is correct record?

A. only (i)

B. only (ii)

C. only (iii)

D. both (i) and (ii)

Answer: Option C
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