CHAPTER # 1: MEASUREMENTS

1) Which one of the following is not a unit of length
- (a) Angstrom
- (b) Micron
- (c) Radian
- (d) Light year

2) Which one of the following is not regarded as a fundamental quantity in Physics?
- (a) Length
- (b) Mass
- (c) Time
- (d) Weight

3) Zero is not significant only if it
- (a) Lies to the left of a significant digit
- (b) is between two digits
- (c) is to the right of a significant digit
- (d) is before the decimal point

4) The dimension of the following pair is not the same
- (a) work & energy
- (b) work and torque
- (c) Momentum & impulse
- (d) Mass & moment of inertia

5) The error in measurement may occur due to
- (a) inexperience of a person
- (b) The faulty apparatus
- (c) Inappropriate method
- (d) Due to all reasons in a, b and c

6) 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 know digits and the first doubtful digit

7) Which one is the highest power multiple?
- (a) giga
- (b) beta
- (c) mega
- (d) deca

8) Unit of G is ?
- (a) $Nm^2 kg^2$
- (b) $N m^2 kg$
- (c) $N m^2 kg^{-2}$
- (d) none

9) The unit of force is_____ and its symbol is _____ which is the correct pair?
- (a) Newton, n
- (b) Newton, N
- (c) newton, n
- (d) newton, N

10) Which one is the correct representation of the unit of pressure?
- (a) $Newton/Meter^2$
- (b) $newton/meter^2$
- (c) $Newton/meter^2$
- (d) $Newton/Meter^2$

11) 1024 can be written in scientific notation as
- (a) $1.024x\ 10^3$
- (b) 2^{10}
- (c) 0.000976
- (d) 1/0300097

12) Number of significant figures in 0.0173 are
- (a) Three
- (b) four
- (c) five
- (d) two

13) The dimension of force is
- (a) MLT^{-1}
- (b) MLT^{-2}
- (c) $ML^{-1}T$
- (d) $ML^{-1}T^2$

14) $ML^{-1}T^{-2}$ is the dimension of
- (a) Force
- (b) Pressure
- (c) Momentum
- (d) Energy

Written and composed by: Prof. Muhammad Ali Malik (M. Phil. Physics), Govt. Degree College, Naushera

15) Which equation is not dimensionally correct?
(a) $E = mc^2$
(b) $V_f = V_i + at$
(c) $S = Vt^2$
(d) $S = 1/2at^2$

16) Which of the following is SI base unit?
(a) gram
(b) slug
(c) Newton
(d) kilogram

17) The dimensions of stain are

1) $[MLT^2]$
2) $[ML^{-2}T]$
3) $[M^o L^o T^o]$
4) $[M^{-1}L^{-1}T^{-1}]$

18) The SI unit of intensity of light is:

(a) Mole
(b) Kelvin
(c) Candela
(d) Ampere

19) 0.0023 can be expressed in scientific notation as:
(a) 23×10^{-4}
(b) 0.23×10^{-2}
(c) 2.3×10^{-3}
(d) None

20) How many years in one second?
(a) 3.1×10^{6} years
(b) 3.1×10^{-7} years
(c) 3.1×10^{-8} years
(d) 3.1×10^{-9} years

21) If the reading is taken with measuring scale whose minimum division is 1mm, then the correct reading is:

(a) 0.2145 m
(b) 0.21 m
(c) 0.214 m
(d) None

22) 75.560 is round off as:
(a) 75.6
(b) 75.7
(c) 76.00
(d) None

23) Steradian is the angel which lies in:

(a) One dimension
(b) Two dimensions
(c) Three dimensions
(d) None

24) Error occur due to negligence and inexperience of a person is:

(a) Systematic Error
(b) Random Error
(c) None

25) Zero to the right of non-zero digits are:

(a) Significant
(b) Not significant
(c) May or may not be significant
(d) None

26) Absolute uncertainties are added in following operations:

(a) Multiplication
(b) Division
(c) Subtraction
(d) None

27) Silicon is abundantly obtained from:

(a) Water
(b) Metal
(c) Sand
(d) Stones

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