



- (a)  $10^{-3}$             (b)  $10^{-5}$             (c)  $10^{-6}$             (d)  $10^{-8}$

11. Upto how many decimal places a common vernier callipers can measure the length in cm? [     ]

- (a) three            (b) one            (c) two            (d) four

12. Which one of the following is a vector quantity? [     ]

- (a) speed            (b) time            (c) density            (d) acceleration

13. A body when projected up, goes to a height 'h' in time 't' and then returns back to the point of projection. Then \_\_\_\_\_ [     ]

- (a) the final speed is same as initial speed    (b) the displacement is zero  
(c) the acceleration is zero                      (d) the average velocity is  $\frac{2h}{t}$

14. The expression for maximum height is \_\_\_\_\_. [     ]

- (a)  $h_{(\max)} = u^2/3g$     (b)  $h_{(\max)} = u^2/2g$     (c)  $h_{(\max)} = u^2/4g$     (d)  $h_{(\max)} = u^2/5g$

15. 1 a.m.u = \_\_\_\_\_ kg. [     ]

- (a)  $1.66 \times 10^{-28}$     (b)  $1.66 \times 10^{-27}$     (c)  $1.66 \times 10^{-26}$     (d)  $1.66 \times 10^{-25}$

16. If a body of mass 5kg is moving with a velocity of 5m/sec, the momentum of the body will be \_\_\_\_\_. [     ]

- (a) 1 kg-m/sec<sup>3</sup>    (b) 25 kg-m/sec    (c) 25 N            (d) none

17. 1 kg-m = \_\_\_\_\_ joules. [     ]

- (a) 0.98            (b) 0.098            (c) 9.8            (d) 98

18. An example of renewable source of energy is \_\_\_\_\_. [     ]

- (a) wood            (b) charcoal            (c) coal            (d) bio-mass

19. The Nakata Electricity Plant which uses energy from the sea to produce electricity, is in \_\_\_\_\_ country. [     ]

- (a) Japan                      (b) China                      (c) America                      (d) Pakistan
20. \_\_\_\_\_ are natural nuclear power stations. [     ]
- (a) planets                      (b) satellites                      (c) stars                      (d) asteroids
21. An example of non-periodic event is \_\_\_\_\_. [     ]
- (a) heart-beat                      (b) earthquake                      (c) rotation of earth                      (d) none
22. The temperature of lava ranges from \_\_\_\_\_. [     ]
- (a)  $600^{\circ}\text{C}$  to  $1200^{\circ}\text{C}$                       (b)  $700^{\circ}\text{C}$  to  $1400^{\circ}\text{C}$
- (c)  $800^{\circ}\text{C}$  to  $1600^{\circ}\text{C}$                       (d)  $900^{\circ}\text{C}$  to  $1800^{\circ}\text{C}$
23. \_\_\_\_\_ are the evidences of the internal heat under the surface of the earth. [     ]
- (a) rain                      (b) cyclones                      (c) volcanic eruption                      (d) none
24. The reactant which accepts electrons from the other reactant is called \_\_\_\_\_ agent. [     ]
- (a) reducing                      (b) oxidising                      (c) vapourising                      (d) condensing
25. The maximum number of electrons present in each orbit is generally given by \_\_. [     ]
- (a)  $2n^2$                       (b)  $4n^2$                       (c)  $3n^2$                       (d)  $5n^2$
26. What is the volume at S.T.P if the volume of a gas is 100ml at 380mm Hg  
And  $27^{\circ}\text{C}$ .? [     ]
- (a) 45.5ml                      (b) 90ml                      (c) 200ml                      (d) 600ml
27. The gas law giving relation between volume and temperature of a gas is\_\_ [     ]
- (a) Dalton's law                      (b) Gaylussac's law                      (c) Boyle's law                      (d) Charle's law
28. If the absolute temperature of a gas is doubled, then  $PV =$  \_\_\_\_\_. [     ]
- (a) is halved                      (b) remains constant
- (c) V is doubled and P is halved                      (d) is doubled
29. The value of Kelvin zero is \_\_\_\_\_. [     ]

- (a)  $273^{\circ}\text{C}$       (b)  $-273^{\circ}\text{C}$       (c)  $373^{\circ}\text{C}$       (d)  $-373^{\circ}\text{C}$
30. Convert 760 Torr to atm. [    ]
- (a) 0 atm      (b) 2 atm      (c) 3 atm      (d) 1 atm
31. Convert  $30^{\circ}\text{C}$  to Kelvin. [    ]
- (a)  $303^{\circ}\text{K}$       (b)  $-303^{\circ}\text{K}$       (c)  $243^{\circ}\text{K}$       (d)  $-243^{\circ}\text{K}$
32. The chemical formula of calcium sulphite is \_\_\_\_\_ . [    ]
- (a)  $\text{CaSO}_3$       (b)  $\text{CaSO}_4$       (c)  $\text{Ca}(\text{SO}_4)_2$       (d) None
33. The valency of all non-metals is considered to be \_\_\_\_\_ . [    ]
- (a) positive      (b) zero      (c) negative      (d) two
34. The chemical formula of calcium bromide is \_\_\_\_\_ . [    ]
- (a)  $\text{Ca}_2(\text{Br})_2$       (b)  $\text{Ca}_2\text{Br}$       (c)  $\text{CaBr}$       (d)  $\text{Ca}(\text{Br})_2$
35. The formula of Chromium sulphate is \_\_\_\_\_ . [    ]
- (a)  $\text{Cr}_2(\text{SO}_4)_3$       (b)  $\text{Cr}_2(\text{SO}_4)_2$       (c)  $\text{Cr}_2(\text{SO}_2)_3$       (d)  $\text{Cr}(\text{SO}_4)_3$
36. The formula of sodium zincate is \_\_\_\_\_ . [    ]
- (a)  $\text{NaZnO}_2$       (b)  $\text{Na}_2\text{ZnO}_2$       (c)  $\text{NaZnO}$       (d)  $\text{NaZn}$
37. The electronegative ions are \_\_\_\_\_ radicals. [    ]
- (a) basic      (b) neutral      (c) acidic      (d) common
38. \_\_\_\_\_ cannot be split into simpler substances. [    ]
- (a) multi molecule      (b) molecule      (c) compound      (d) element
39. Properties that are identified by the use of senses are called \_\_\_\_\_ properties. [    ]
- (a) acidic      (b) physical      (c) chemical      (d) radical
40. \_\_\_\_\_ can be homogeneous and heterogeneous. [    ]
- (a) element      (b) compound      (c) mixture      (d) molecule

41. A pure substance that contains only one kind of atom is called \_\_\_\_\_. [     ]  
(a) element            (b) compound            (c) mixture            (d) molecule
42. The valency of carbon in CH<sub>4</sub> is \_\_\_\_\_. [     ]  
(a) 1                    (b) 4                    (c) 2                    (d) 3
43. Micro balances are used to measure the mass of substances upto \_\_\_\_\_. [     ]  
(a) 1 milligram        (b) 1 kg                    (c) 1 microgram        (d) 1 cm
44. 1 kilo Watt = \_\_\_\_\_ Horse power. [     ]  
(a) 1.43                (b) 1.34                (c) 1.46                (d) 1.64
45. The energy possessed by cyclonic winds is \_\_\_\_\_ energy. [     ]  
(a) potential            (b) thermal            (c) solar                (d) kinetic
46. Average density of crustal rocks is \_\_\_\_\_. [     ]  
(a) 2.9gm/cc            (b) 2.8 gm/cc            (c) 2.7gm/cc            (d) 2.6gm/cc
47. Triple beam balance has a fixed fulcrum and \_\_\_\_\_ shoulders. [     ]  
(a) unequal            (b) equal                (c) soft                (d) rare
48. Biogas contains \_\_\_\_\_ percent of methane. [     ]  
(a) 66                    (b) 65                    (c) 64                    (d) 63
49. Geo thermal heat is now used in \_\_\_\_\_. [     ]  
(a) India                (b) Africa                (c) Iceland                (d) Srilanka
50. The equation of potential energy is \_\_\_\_\_. [     ]  
(a)  $\frac{1}{2} mv^2$             (b)  $\frac{1}{3} mv^2$             (c)  $\frac{1}{4} mv^2$             (d)  $\frac{1}{5} mv^2$

