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**21. Water is neither acidic nor alkaline because**

- (a) it cannot accept or donate protons.
- (b) it boils at a high temperature.
- (c) it can dissociate into equal number of hydrogen ions.
- (d) it cannot donate or accept electrons.

**22. Chemical change does not take place in case of?**

- (a) souring of milk into curd
- (b) rusting of iron in atmosphere
- (c) burning of magnesium ribbon in air
- (d) emitting of light by a red hot platinum wire

**23. Vulcanization is a ?**

- (a) science of studying volcanoes
- (b) method to degrade polymers
- (c) process connected with the making of voltaic cells
- (d) process of hardening of rubber by heating it with sulphur

**24. Which of the following causes the rusting of iron?**

- 1. Oxidation
- 2. Reduction
- 3. Chemical reaction with oxygen
- 4. Chemical reaction with CO

- (a) 1 and 2
- (b) 2 and 3
- (c) 3 and 4
- (d) 1 and 3

**25. Which of the following statements is/are true?**

- 1. The process of oxidation leads to a gain of electrons.
- 2. The process of oxidation leads to a loss of electrons.
- 3. The process of reduction leads to a gain of electrons.
- 4. The process of reduction leads to a loss of electrons.

- (a) 1 only
- (b) 1 and 4
- (c) 2 and 3
- (d) 4 only

**26. Light year is a unit of measurement of**

- (a) speed of light
- (b) stellar distances
- (c) speed of rockets
- (d) speed of aero planes

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**27. One micron is equal to**

- (a) 1/10th of nm
- (b) 1/100th of nm
- (c) 1/1000th of nm
- (d) 1/10000th of nm

**28. Hydrometer is an instrument**

- (a) for measuring sound under water
- (b) to detect the presence of hydrogen in the atmosphere
- (c) for measuring the specific gravity of liquids
- (d) to detect the changes in atmospheric humidity

**29. 'Bar' is the unit of ?**

- (a) heat
- (b) temperature
- (c) current
- (d) atmospheric pressure

**30. A chronometer measures**

- (a) sound waves
- (b) time
- (c) water waves
- (d) colour contrast

**31. One fathom is equal to?**

- (a) 6 meters
- (b) 6 feet
- (c) 60 feet
- (d) 100 cms

**32. What is the unit for measuring the pitch or frequency of sound?**

- (a) Coulomb
- (b) Hum
- (c) Cycles
- (d) Hertz

**33. Electric current is measured by**

- (a) anemometer
- (b) voltmeter
- (c) ammeter
- (d) commutator

**34. Fathom is the unit of ?**

- (a) sound
- (b) depth
- (c) distance
- (d) frequency

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**35. Kilohertz is a unit which measures**

- (a) electric resistance
- (b) power used by a current of one ampere
- (c) electromagnetic radio wave frequencies
- (d) None of these

**36. If you swim one km, how many miles do you swim?**

- (a) 0.5
- (b) 0.62
- (c) 0.84
- (d) 1.6

**37. Kilowatt is a unit to measure**

- (a) work
- (b) electricity
- (c) power
- (d) current

**38. Very small time intervals are accurately measured by the**

- (a) Pulsars
- (b) Quartz clocks
- (c) Atomic clocks
- (d) White dwarfs

**39. Decibel is the unit used for**

- (a) speed of light
- (b) intensity of heat
- (c) intensity of sound
- (d) radio wave frequency

**40. Which of the following is correct regarding the barometer commonly used in homes to see weather indication?**

- 1. It is called Furlin's barometer and uses mercury.
  - 2. It is called Furlin's barometer and uses alcohol.
  - 3. It is called aneroid barometer and uses mercury.
- (a) 1
  - (b) 2
  - (c) 3
  - (d) None

21 c 22 d 23 d 24 c 25 c 26 b 27 c 28 c 29 d 30 b 31 b 32 d 33 c 34 b 35  
c 36 b 37 c 38 c 39 c 40 d