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OLYMPIAD PRACTICE WORKSHEET

Q1- All of the following particles make up an atom except.

- a) Proton
- b) Plasma
- c) Neutrons
- d) Electrons

Q2- The smallest part of an element that still has the properties of the element.

- a) Compound
- b) Molecule
- c) Atom
- d) Chemical change

Q3- The idea that everything is made of small particles.

- a) Atomic theory
- b) Molecules
- c) Dalton
- d) Solution

Q4- Different materials placed together, but each material keeps its own properties.

- a) Mixture
- b) Solution
- c) Solvent
- d) Solute

Q5- H₂O is example of this.

- a) Solid,atom
- b) Liquid,molecule
- c) Gas,element
- d) Plasma,vapour

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Q6- Which state of matter has most tightly packed molecules.

- a) Solid
- b) Liquid
- c) Gas
- d) Plasma

Q7- The measure of amount of matter in an object.

- a) Mass
- b) Area
- c) Matter
- d) Volume

Q8- Two or more materials combine chemically to form a(n).

- a) Mixture
- b) Compound
- c) Physical
- d) Mixture

Q9- Which of the following is an element.

- a) Water
- b) Sugar
- c) Water
- d) Milk

Q10- A neutral atom has equal number of.

- a) Protons and neutrons

- b) Protons and electrons
- c) Electrons and neutrons
- d) Shells and orbitals

Q11- Atoms that are chemically bonded together are called.

- a) Mixtures
- b) Legos legos
- c) Elements
- d) Molecules

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Q12- The particle inside the atom that is not located inside of the nucleus.

- a) Proton
- b) Neutron
- c) Electron
- d) Electron cloud

Q13- What is the atomicity of oxygen in H_2CO_3

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

Q14- Valency of Sodium is.

- a) 1
- b) 2
- c) 4
- d) 7

Q15- If hydrogen forms only one bond, then the valency of hydrogen is.

- a) 1
- b) -1
- c) 5

d) 2

Q16- One atom of Chlorine combines with one atom of hydrogen to form HCl. Similarly one atom of Nitrogen combines with three atoms of hydrogen to form NH_3 . Whose valency is more ?

- a) Nitrogen
- b) Chlorine

Q17- If an element A has valency y and element B has valency x , in that case if both the elements combine, the formula for the resultant element would be.

- a) AxBy
- b) AyBx

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Q18- Which one of the following has variable valency ?

- a) Iron
- b) Chlorine
- c) Nitrogen
- d) Sodium

Q19- Which one of the following is the symbol of gold ?

- a) Au
- b) Pb
- c) Ag
- d) Gd

Q20- A simple acid will always have

- a) Hydrogen
- b) Oxygen
- c) Chlorine
- d) Nitrogen

