



RAMAGYA SCHOOL, NOIDA

CLASS X/SCIENCE/2018-19

OLYMPIAD PRACTICE WORKSHEET

Q1. Pericarp is the ----- of the fruit

- A. leaf
- B. wall
- C. stem
- D. root

Q2. The bond between two identical non metallic atom has a pair of electron?

- A un equally shared between two atoms.
- B transferd completely from one atom to another.
- C with identical spins
- D equally shared between them.

Q3. Covalent compounds are generally

- A soluble in water
- B insoluble in water
- C ionize in water
- D hydrolyse in water

Q4. Propane with the molecular formula  $C_3H_8$  has

- A 7covalent bonds
- B 8 covalent bonds
- C 9 covalent bonds

D 10 Covalent bonds.

Q5. A hydrocarbon reacts with ammonical cuprous chloride solution to form a red precipitate. The hydrocarbon is

A ethane

B ethene

C butane

D 1-propyne

Q6. Which of the following substance is added to denature Ethanol ?

A methanol

B pyridine

C copper sulphate

D all of them

Q7. Which of the following is not an allotropic form of carbon

A fluorine

B fullerene

C diamond

D graphite

Q8. Which of the following represents the correct decreasing order of hydrogen atoms ?

A alkanes , alkenes , alkynes

B alkanes , alkynes , alkenes

C alkenes , alkynes , alkanes

D alkynes , alkanes , alkenes

Q9. Detergents are sodium or potassium salts of long chain of ;-

- A aldehydes
- B ketones
- C carboxylic acid
- D sulphonic acid

Q10. Which of the following represents the structure of N<sub>2</sub> molecule ?

- A  $N \equiv N$
- B  $N = N$
- C  $N - N$
- D None of the above

Q11. In double covalent bond there is sharing of

- A 2 electrons
- B 4 electrons
- C 6 electrons
- D 3 electrons

Q12. Cation is formed when

- A atom gains electrons
- B atom loses electrons
- C proton is lost by the atom
- D atom shared by electrons

Q13. The total no. of electrons that take part in forming a bond in N<sub>2</sub> is

- A 2
- B 4
- C 6

D 10

Q14. Which of the following has the weakest carbon-carbon strength?

A C<sub>2</sub>H<sub>2</sub>

B C<sub>2</sub>H<sub>4</sub>

C C<sub>2</sub>H<sub>6</sub>

D all have the same bond strength

15. A solar heating system consists of

A collector

B storage device

C distribution system

D all of above

16. Energy coming directly from magma is called

A mechanical energy

B geothermal energy

C heat energy

D electrical energy

17. Change in quality of environment that can be harmful for living things is called

A power

B energy conversion

C pollution

D none of above

18. Dams are used for generation of

A mechanical energy

B nuclear energy

C electrical energy

D heat energy

19. Sexual Reproduction can be grouped into -----distinct stages.

A. two

B. three

C. four

D. five

20. In this method Parents cell divides into many daughter cells.

A. Fission

B. Binary fission

C. Multiple fission

D. Budding