



RAMAGYA SCHOOL, NOIDA
IV/SCIENCE/AUGUST/2018
OLYMPIAD PRACTICE WORKSHEET

CONCEPT BASED QUESTIONS

1. The process of conversion of ice into water is known as _____.
a) Boiling
b) Melting
c) Evaporating
d) Freezing
2. Freezing point of water is _____ degree celsius.
a) 212
b) 0
c) 50
d) 100
3. Which of the following is an example of solvent?
a) Salt
b) Water
c) Sand
d) Sugar
4. Which of the following is not a state of matter?
a) Gas
b) Liquid
c) Solid
d) Stone
5. The molecules are closely packed in _____.
a) Liquid
b) Gas
c) Solid
d) none of these
6. Iron vessel when exposed to moist air gets rusted. This type of change is called _____ change.
a) physical
b) chemical
c) reversible
d) none of these
7. An atom of carbon will have _____.
a) properties of carbon
b) Properties of carbon and hydrogen
c) properties of carbon and oxygen
d) none of these
8. Molecules of water is made up of atoms of _____.
a) Nitrogen and oxygen
b) Hydrogen and oxygen
c) carbon and Hydrogen
d) none of these
9. Which of the following is a chemical change ?
a) Cutting wood of trees
b) curdling of milk
c) Bursting of tyres
d) Falling of coconut from trees
10. What is not true about liquid?
a) Liquid can flow
b) liquid takes the shape of container in which it is put
c) the molecules of liquid are loosely packed

d) Liquid has a definite shape.

APPLICATION BASED QUESTIONS

11. Match the following and mark the correct option

List I		List II	
A	Cotton	1	Fixed shape
B	Solid	2	Always in solid state
C	Solute	3	Always in liquid state
D	Solvent	4	Plant fibre.

a) A-1,B-2,C-3,D-4 b) A-3,B-4 ,C-1,D-2 c) A-4,B-1,C-2,D-3 d) A-2,B-1,C-4,D-3

12. _____ + Solvent = Solution

a) Liquid

b) Solute

c) Gas

d) Oil

13. Choose the incorrect statement

a) Solids have fixed shape and volume.

b) Liquids have fixed shape.

c) Molecules are tightly packed in case of solids.

d) Gases have no fixed shape and volume .

14. Which does "x" represent in the box given below?



a) Condensation

b) Melting

c) Heating

d) Freezing

15. Consider the following statements and choose the correct answer

Statement A: Matter is anything which occupies space and has mass.

Statement B : All matter is made up of molecules.

a) Statement A is correct and B is wrong

b) Statement B is correct and A is wrong

c) Both the statements are correct

d) Both the statements are wrong

HOTS

16. The smell of the perfume spreads quickly from one corner of the room to other because_____.

a) Gases can flow easily

b) Molecules are tightly packed

c) Gas have fixed volume

d) Gas have fixed shape

17. In sugar solution, sugar is _____.

a) Solute

b) solvent

c) Liquid

d) solution

18. When we add sugar to water and dissolve it, what happens to the level of water?

a) Water level increases

b) Water level decreases

c) Water level remains same

d) None of these

19. Choose the correct option.

a) Stone, Chair, Milk

b) Oxygen, Hydrogen, Duster

c) Oil, Water, Ink

d) Juice, Box, Water

20. Mohan wants to convert water to ice. What process he had to perform?

a) Boiling

b) Freezing

c) Melting

d) None of these

