



RAMAGYA SCHOOL, NOIDA
IV/SCIENCE/2017-18
OLYMPIAD PRACTICE WORKSHEET

Concept based Questions

- Q.1) The molecules are loosely packed in _____
a) Liquid b) Gas c) Solid d) none of these
- Q.2) 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
- Q.3) The process of conversion of ice into water is known as _____.
a) Boiling b) Melting c) Evaporating d) Freezing
- Q.4) In sugar solution, sugar is _____.
a) Solute b) solvent c) Liquid d) solution
- Q.5) Freezing point of water is _____ degree celsius.
a) 212 b) 0 c) 50 d) 100
- Q.6) Which of the following is an example of solvent?
a) Salt b) Water c) Sand d) Sugar
- Q.7) Which of the following is not a state of matter?
a) Gas b) Liquid c) Solid d) Stone

Application Based Questions

- Q.8) Which of the following is an example of synthetic clothe?
a) Cotton b) Nylon c) Wool d) Fur
- Q.9) 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

Q10) _____ + Solvent = Solution

- a) Liquid b) Solute c) Gas d) Oil

Q11) Light coloured clothes are good to be used in summers because_____.

- a) they absorb heat and light b) they look pretty
c) they reflect heat and light d) none of these

Q12) 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.

Q13) Which does "x" represent in the box given below?



- a) Condensation b) Melting c) Heating d) Freezing

Q14) Match the following and mark the correct option

| LIST I | | LIST II | |
|--------|---------------------|---------|---|
| A | Tree | 1 | Value for flavor, scent, medicinal purpose |
| B | Shrubs | 2 | Have thick trunk |
| C | Climbers & Creepers | 3 | Are small plants |
| D | Herbs | 4 | Grow along the ground or up the sides of walls or trees |

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

HOTS Questions

Q15) 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

Q.16) 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

Q.17) Choose the correct option.

- a) Stone, Chair, Milk
- b) Oxygen, Hydrogen, Duster
- c) Oil, Water, Ink
- d) Juice, Box, Water

Q18) Consider the following statement and choose the correct option

Statement A : Synthetic fibers are durable.

Statement B : Synthetic fibers not wrinkle free.

- a) Statement A is correct and B is wrong
- b) Statement B is correct and A is wrong
- c) Both the statements are wrong
- d) Both the statements are false

Value Based Question

Q19) Amit is growing very fast, he has many small extra clothes and shoes. What should Amit do?

- a) Should tear the clothes.
- b) Should through them in dustbin.
- c) Should give them to needy people.
- d) None of the above.

Q20) Mohan wants to convert water to ice. What process he had to perform?

- a) Boiling
- b) Freezing
- c) Melting
- d) None of these