

HOLIDAY ASSIGNMENTS

Class IX (BIOLOGY)

TERM I

IMPROVEMENT OF FOOD RESOURCES

- Q.1 Why do we store food material at low temperature?
- Q. 2 Why does boiled rice get more easily spoiled than raw rice?
- Q.3 State any two factors which have helped us to raise the food production?
- Q.4 Describe the role of water in crop production?
- Q.5 What is fumigation?
- Q.6 What are weeds? How are they removed?
- Q.7 Mention the essential features of good storage?
- Q.8 What is meant by infestation?
- Q.8 An agriculture worker talking to the farmer said “For obtaining good wheat crops the use of fungus resistant seeds and irrigation after the maturity of crops are needed”. Which part of the statement is not correct?
- Q. 10 Name one solid fumigant.

PROJECT WORK

ON ANY ONE TOPIC

1) Agriculture

- (a) Crop variety management
- (b) Nutrient management by use of manures/ fertilizers

2) Animal husbandry

3) Cell - Animal or plant

4) Animal or Plant tissues

CHEMISTRY

MATTER IN OUR SURROUNDINGS

ASSIGNMENT

Q.1 What are the conditions for 'something' to be called matter ?

Q. 2 When Sugar is dissolved in water, there is no increase in the volume. Which characteristic of matter is illustrated by this observation?

Q. 3 When an incense stick (agarbatti) is lighted in one corner of a room, its fragrance spreads in the whole room quickly. Which characteristic of the particle of matter is shown by this observation?

Q. 4 A piece of chalk can be broken into small particles by hammering but a piece of iron cannot be broken into small pieces by hammering. Which characteristic of the particles of matter is illustrated by these observation?

Q. 5 What is the general name of :-

a) rigid form of matter b) fluid forms of matter

Q. 6 What is the scientific name of particles which make up matter?

Q. 7 Name the physical state of matter which can be easily compressed.

Q. 8 Write the full forms of the following

i) LPG ii) CNG

Q. 9 Name two gases which are supplied in compressed form in your homes and hospitals.

Q.10 Explain why the diffusion of a solid in another solid is a very slow process.

Q. 11 Why do gases have neither a fixed shape nor fixed volume.

Q. 12 Explain why

a) air is used to inflate tyres

b) Steel is used to make railway lines

Q. 13 The boiling point of water is 100°C . Express this in SI units (Kelvin Scale)

Q. 14 Convert the following :-

i) 573 K to $^{\circ}\text{C}$ ii) 373°C to K

iii) 78° to K iv) 270 K to $^{\circ}\text{C}$

Q. 15 Name the temperature at which

a) a liquid changes into a gas

b) a solid changes into a liquid

Q.16 State the conditions necessary to liquefy gases.

Q.17 What is evaporation? State the various factors which affect evaporation?

Q.18 How will you demonstrate that water vapour is present in the air?

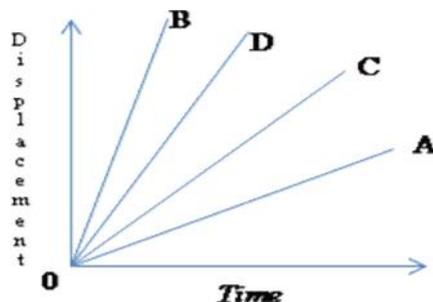
Q.19 What is the common name of solid CO_2 ?

Q. 20 How does perspiration or sweating help keep our body cool on hot day?

CLASS IX (PHYSICS)

MOTION

1. State three equations of motion which of them describes
 - i) Velocity time describes.
 - ii) Position time relation.
2. A car covers a distance X , while moving at 54 km/hr in 15 seconds. The value of X is :
 - a) 0.225km
 - b) 5.40km
 - c) 2.25 km
 - d) 13.5km
3. A body can have zero average velocity but not zero average speed. Explain.
4. An object A is moving with a constant velocity for 5 minutes. Another object B is moving with changing velocity for 5 minutes. Out of these two objects, which one has acceleration. Explain.
5. Why does (second)² occur in the unit of acceleration.
6. Figure shows the displacement time graph of four children A,B,C,D. Which child has the highest velocity .



7. A particle is moving in a circle of diameter 5m. What is its displacement when it completes $1\frac{1}{2}$ revolutions ?
8. A physical quantity measures is -10 m/s . Is it speed or velocity.
9. What is the difference between uniform motion in a straight line and uniform circular motion.
10. If the displacement- time graph for a particle is parallel to time axis, how much is the velocity of the particle.