

# Holiday Homework

## Science (IX)

### PHYSICS

Q1. Prepare notes on all definitions of chapter 'MOTION' and draw all the diagrams.

### CHEMISTRY

Q1. What are the main conditions for something to be called as matter?

Q2. What do you mean by diffusion? Give one example each of diffusion of

- i) Gases in liquid
- ii) Solid in liquid
- iii) Liquid in liquid

Q3. On dissolution of sugar the volume of water does not increase. Give reason.

Q4. Name two gases which are supplied in compressed forms.

Q5. Why do gases diffuse faster than liquids?

Q6. Why fragrance of lit incense sticks does spreads quickly in the room?

Q7. Explain latent heat of fusion and latent heat of vapourization with diagram.

Q8. Convert the following to K scale. a)  $250^{\circ}\text{C}$  b)  $502^{\circ}\text{C}$  c)  $703^{\circ}\text{C}$

Q9. Convert the following to C scale. a) 450K b) 334K c) 255K

### BIOLOGY

Q1. Write notes on

- i) Macronutrients and micronutrients
- ii) Types of manures
- iii) Types of fertilizers
- iv) Disadvantages of using fertilizers
- v) Methods of irrigation
- vi) Sustainable agriculture
- vii) Cropping systems
- viii) Measures for increasing crop production

Q2. Why do crops fail to develop in dry or water logged soil?

Q3. What is eutrophication?

Q4. Explain the methods to control weeds?

Q5. What are the advantages and disadvantages of hybrid varieties?