

DELHI PUBLIC SCHOOL , JAMMU
SESSION (2019-20)
ASSIGNMENT

Subject: Physics

Class: IX

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Topic : Motion

- 1) Explain the concept of motion and rest.
- 2) Differentiate between uniform and non uniform motion.
- 3) An object travels 16 m in 4 sec and then another 16 m in 2 sec. What is the average speed of the object.
- 4) Define velocity and acceleration.
- 5) Explain velocity time graph of an object in non uniform accelerated motion.
- 6) Derive equations of motion by graphical methods.

Subject: Chemistry

Topic : Matter in our Surroundings

- 1) What are the characteristics of the particles of matter?
- 2) How does water kept in an earthen pot become quite cold during summer?
- 3) On suffering from high fever, which will lower your body temperature more; ice or ice cold water?
- 4) Explain the interconversion of three states of matter in terms of force of attraction and kinetic energy of the molecules.
- 5) State one similarity and two differences between boiling and evaporation.
- 6) Describe an activity to show that particles of matter have spaces between them.
- 7) List any two properties of liquids which are common to gases.
- 8) Why does a gas fill completely the vessel in which it is kept?
- 9) Convert the following temperatures to celsius scale:-

- a) 453K
- b) 527K
- c) 273K
- d) 25K

Subject : Biology

Topic : The Fundamental Unit of Life

- 1) List the functions of cell wall.
- 2) What is the significance of endoplasmic reticulum in a cell?
- 3) What are the different kinds of plastids? Write their functions.
- 4) Why is osmosis a kind of diffusion process?
- 5) Name the different parts of a nucleus and give functions of each part.
- 6) What is endocytosis? Explain with the help of a diagram.
- 7) Why are genes called hereditary vehicles?
- 8) Name any two organelles which are associated with the ribosomes and help in protein synthesis.