

DELHI PUBLIC SCHOOL, JAMMU
SESSION (2019-2020)
ASSIGNMENT -III

CLASS: IX

SUBJECT: SCIENCE

SUBJECT: PHYSICS

TOPIC: FORCE AND LAWS OF MOTION

- 1) Define Force and give its SI unit.
- 2) Give the importance of Newton's laws of motion.
- 3) Define Newton's 2nd law and derive expression for it.
- 4) State and prove Law of conservation of linear momentum.
- 5) Calculate the force when a body of mass 5kg changes its velocity from 2m/s to 5m/s in 5seconds?

SUBJECT: CHEMISTRY

TOPIC: IS MATTER AROUND US PURE?

- 1) Classify the following into elements, compounds and mixtures:
a) Sodium b) Soil c) Sugar solution d) Silver e) Calcium carbonate
f) Tin g) Silicon h) Coal i) Air j) Soap k) Methane l) Carbon dioxide
n) Blood.
- 2) Classify Brass and Diamond as element and mixture.
- 3) What type of solution is an alloy? Liquid solution or solid solution
- 4) A solution contains 60g of sugar in 480g of water. Calculate the concentration of solution in terms of mass by mass percentage of the solution
- 5) How would you confirm that the colourless liquid given to you is pure water?
- 6) What is saturated solution? What happens when a saturated solution is heated?
- 7) List any three differences between true solution and suspension.
- 8) List points of difference between homogeneous and heterogeneous mixtures.

SUBJECT: BIOLOGY

TOPIC : ANIMAL TISSUES

- 1) List the importance of platelets.
- 2) How does adipose tissue contribute to body insulation?
- 3) Why is blood considered to be connective tissue?

- 4) What are the main functions of nervous tissue?
- 5) Give two structural features and one function of each kind of muscle.
- 6) Why is lymph important?
- 7) Explain structure and function of :
 - a) Ciliated epithelium
 - b) Glandular epithelium
- 8) Differentiate between axon and dendrite.
- 9) How bone is different from cartilage?
- 10) What is skeletal connective tissue? Give its functions.