## Class 9

10-8-2016
Formative Assessment II in SCIENCE

Time : 1 hr .
M. Marks : 20

## PHYSICS (Time: 20 min.; M. Marks: 07)

1. A trolley while going down on an inclined plane has an acceleration of $2 \mathrm{~m} / \mathrm{s}^{2}$. What will be its velocity 3 seconds after the start?
2. a) Define uniform circular motion.
b) An artificial satellite is moving in a circular orbit of radius 42250 km . Calculate its speed if it takes 24 hours to revolve around the earth.
3. Derive the first equation of motion graphically.
4. Following is a v-t graph of an ascending passenger lift.


Calculate
a) Acceleration of the lift during first two seconds.
b) Acceleration between second and fifth second.
c) Acceleration during last three seconds.
d) Time duration with constant velocity.

## CHEMISTRY (Time: 20 min.; M. Marks : 07)

1. a) What is Tincture of Iodine?
b) Give an example of a liquid non-metal.
2. Define the following terms:
a) Saturated solution
b) Homogeneous mixtures
3. Differentiate between : (2 points)
a) Boiling and evaporation
b) Mixture and Compound
4. i) Give reason:
a) Water kept in an earthen pot become cool during summer.
b) We are able to sip hot tea or milk faster from a saucer rather than a cup.
ii) A solution contains 50 g of sugar in 350 g of water. Calculate the concentration of solution in terms of mass by mass percent of the solution

## BIOLOGY (Time: 20 min.; M. Marks: 06)

1. Name the following :-
a) Any two cell organelles which have their own DNA and ribosomes.
b) Any two types of simple permanent plant tissues
2. List any two features of meristematic tissue.
3. Differentiate between:
a) RER and SER
b) apical and lateral meristem (any two points)
4. Give reason:
a) cells of sclerenchyma have a narrow lumen.
b) its difficult to pull out the husk of coconut.
