

SARALA BIRLA PUBLIC SCHOOL

Mahilong, Ranchi.

Revision Test (Science) [21.1.2020]

Class - IX

Physics

1. State Archimedes' principle. 1
2. What is the use of Lactometer and Hydrometer? 1
3. A stone of size 1kg is thrown with a velocity of 20m/s across the frozen surface of a lake and comes to rest after travelling a distance of 50m. What is the force of friction between the stone and the ice? 2
4. Write four differences between mass and weight. 2
5. A force of 6N gives a mass m_1 and acceleration of 18m/s^2 and mass m_2 , an acceleration of 24m/s^2 . What acceleration would it give if both the masses were tied together? 2
6. Derive the equation $v^2 = u^2 + 2aS$ graphically. 3
7. (a) State universal law of gravitation.
(b) Relative density of gold is 19.3. The density of water is 1000kg/m^3 . What is the density of gold in SI unit? 3

Chemistry

1. Name the physical state of matter which can be easily compressed. 1
2. Which of the two will scatter light soap solution or sugar solution? 1
3. Convert 573 Kelvin into Celsius scale. 1
4. Name the technique to separate- 2
 - a. butter from curd
 - b. Salt from seawater
5. Define the following - 2
 - a. latent heat of vaporization
 - b. latent heat of fusion
6. Explain the following- 3
 - a. our Palm feel cold when we put some Acetone on it .
 - b. we can sip hot tea or milk faster from a saucer rather than a cup .

c. The smell of perfume can be felt even at metre away.

7. Explain the method to obtain gases from air. 3

Biology

Q1.The cell organelles found in prokaryotes as well as eukaryotes is 1

- I) Centrioles ii) Plastids iii) Endoplasmic reticulum iv) Ribosomes

Q2.Which of the following helps in repairs of tissue and fill ups the space inside organ? 1

- I) Tendon ii) Adipose tissue iii) Areolar iv) Cartilage

Q3. a) Which crop is generally grown between cultivation of two cereal crops to to restore fertility of the Soil?

b) Write two differences between mixed cropping and intercropping. 3

Q4. a) Name the multinucleated muscular fibres.

b) Differentiate between straited and non straited muscle fibres on the basis of structure.(two differences) 3

Q5. a) Why is plasma membrane called selectively permeable membrane?

b) Write two functions of plasma membrane.

c) Draw a Prokaryotic cell and label it's two parts. 5