

SARALA BIRLA PUBLIC SCHOOL

Mahilong, Ranchi.

Revision Test-2(Science)[4.2.2020]

Class – IX



(SARALA BIRLA GROUP OF SCHOOLS)

PHYSICS

1. State law of conservation of energy. [1]
2. How are the wavelength and frequency of a sound wave related to speed? [1]
3. A bag of wheat 50kg. Calculate the height to which it should be raised so that its potential energy is 5000J. (take $g = 10\text{m/s}^2$) [2]
4. Write down two differences between loudness and intensity of a sound. [2]
5. An echo returned in 3s. What is the distance of the reflecting surface from the source? (given the speed of sound is 342m/s) [2]
6. Prove that $K.E. = \frac{1}{2}mv^2$ [3]
7. A sound wave travels at a speed of 340m/s. If its wavelength is 1.5cm, what is the frequency of the wave? Will it be audible? [3]

CHEMISTRY

1. State law of constant proportions. 1
2. who was the first to discover neutron? 1
3. Give one example of isobar. 1
4. What are the main postulates of Bohr's atomic theory? 2
5. Calculate the mass of the following- 2
 - a. 5 mole of aluminium atoms
 - b. 0.2 mol atom of Oxygen
6. Write the chemical formula of the following - 3
 - a. calcium nitrate
 - b. sodium sulphate.
 - c. aluminium carbonate
7. Atomic nucleus of an element has mass number 23 and number of neutrons 12 .what is the atomic number of element ? what is the symbol of element ? present.Also write electronic configuration of the above element. 3

BIOLOGY

- Q1. In which group of animals ,coelom is filled with blood ? 1
 - i) Arthropoda.
 - ii) Annelida
 - iii) Nematode
 - iv) Echinodermata
- Q2. Sleeping sickness disease is caused by 1
 - i) Leishmania.
 - ii)Ascaris
 - iii) Trypanosoma.
 - iv)Staphylococci
- Q3. Explain three means by which infectious diseases are spread. 3
- Q4. a) Which group of animals of vertebrata has two chambered heart? 3
b) How do Annelida animals differ from arthropods ?(write two differences).
- Q5. Explain five kingdom classification of organisms. 5