



INDIAN SCHOOL SOHAR
FORMATIVE ASSESSMENT- 1
SCIENCE

CLASS - IX
02-02-16

SET:-II
Time:- 40 Minutes
Marks:-20

Answer the following:-

1. Choose the odd one out from the animals listed below. State the reason to justify your answer.

Pila, Unio, Chiton, Antedon

(1)

2. Identify the energy possessed by a rolling stone.

(1)

3. What is the relationship between commercial unit and SI unit of energy?

(1)

4. Composition of the nuclei of two atomic species 'X & Y' are given as under:

	X	Y
protons	8	8
neutrons	8	10

(i) What are the mass numbers of X & Y?

(ii) How are they related to each other?

(1)

5. Write the electronic configuration and draw the atomic structure of Chlorine atom.

(1)

6. Mohan is suffering from Influenza while his friend is suffering from Elephantiasis. Which of these diseases will have short term effect on the body and why?

(2)

7. Compute the power required by an electric motor that can lift 800 kg of water to store in a tank at a height of 15 m in 20 s. (Take $g=10\text{m/s}^2$).

(2)

8. (i) Calculate the number of moles in 17g of H_2O_2 .

(Atomic weight of H=1u, O=16u)

(ii) Calculate mass of 3.011×10^{23} number of nitrogen atoms.

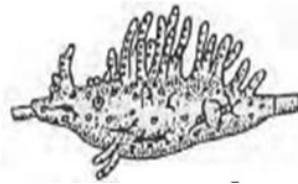
(Atomic mass of N=14u)

(2)

9. i) Identify the organism shown in the picture.

ii) Name the phylum to which it belongs and state two characteristic features of the phylum.

(3)



10. (i) Give Bohr Bury rules for distribution of electrons in different shells?

(ii) What are the features of Rutherford's model of an atom?

(3)

11. Define kinetic energy. Derive an expression for the kinetic energy of an object.

(3)