vinca/W	ai Department of Education – Sabaragamuwa – week School
actment of Education Coherene	Province/ Weekly School Department of Education,Sabaragamuwa Province/ <u>Weekly School Departm</u>
Subject - Science	School Department of Education, Sabaragamuwa Province/Weekly School Departm cation, Sabaragamuwa Province/Weekly School Department of Education, Sabaraga
partment of Education,Sabaragamu	wa Province/ Weekly School Department of Education Colonomy Devices/ Weshley Colonal Device
Grade -10	kly School Department of Education, Sabe Translated by: M.G.P.Miyanadeniya
rtment of	Education Sabaragamuwa Province/ Weel Kg/Dehi/Dr. N.M. Perera M.M.V.

## **<u>1<sup>st</sup> term - Revision Exercises</u>**

## 1.

- A. The bodies of all organisms are created by a collection of compounds. Among them, bio molecules are mainly participated in building up the bodies of organisms.
  - i. Name 4 main bio molecules which are participated in building up the bodies of organisms.
  - ii. There are 3 main groups of carbohydrates. For each group of them,
    - a) Write the molecular formula
    - b) Give 2 examples.
  - iii. Name the 3 components of a nucleotide.
- B. A lot of organic and inorganic compounds contribute to building up the living cells.
  - i. Name 2 inorganic compounds which are participated in building up the human body.
  - ii. What is an enzyme?
  - iii. Write 4 steps of an experiment that can be used to demonstrate the action of amylase on starch.
- C. Answer the following questions relevant to the activity about "identification of water as a constituent in foods."
  - i. If the selected food item is boiled grams, what are the things you will need for the experiment?
  - ii. If anhydrous Copper sulphate is used to identify water,
    - a) What is the color of the anhydrous Copper sulphate?
    - b) What is the color change of Copper sulphate at the end of the experiment?
  - iii. What is the bio molecule that contributes to water preservation in living bodies?
  - iv. Explain how the differential expansion of water during freezing helps to aquatic animals.

- 2.
- A. An object which starts moving from rest, move along a straight path at a uniform acceleration and acquires a velocity of 12ms<sup>-1</sup>. Thereafter it moves at that constant velocity for 6s and ultimately comes to rest with a uniform deceleration during the last 3s.
  - I. Sketch the velocity-time graph for the above motion.
  - II. Find the acceleration of the object during the first 6s.
  - III. Find the distance travelled by the object during the first 6s.
  - IV. Find the distance travelled at a uniform velocity.
  - V. Find the deceleration of the object during the last 3s.
  - VI. Find the total distance travelled by the object.
- B. A coconut of a coconut tree that detaches from its stalk takes 5s to fall to the ground.
  - I. Find the velocity of the coconut when it lands the ground.
  - II. What is the height that coconut fell from?
  - III. Sketch the velocity-time graph for the motion of the coconut.
- C. Write the standard units for the following quantities.

Physical quantity	Standard unit
Distance	
Displacement	
Time	
Speed	
Velocity	
Acceleration	

3.

A. A part of the periodic table is shown below. The symbols given in it are not the standard symbols of the respective elements.

В			D		L
	S			Т	
	К				

- I. Identify two elements belong to the same Group.
- II. What is the highest active element from the above.
- III. Write the formula of the compound formed by the reaction between B and T.

B. The details about few elements are given below. Answer for the following questions using the given details.

Symbol of the element (not standard symbols)	А	В	С	D	E	F	G	Н	Ι	J	K
Number of protons	1	2	17	6	15	16	16	17	20	19	18
Number of electrons	0	2	18	7	16	17	16	20	24	20	18

- I. What is the mass unit of "C"?
- II. Write 2 inactive elements.
- III. Write 2 isotopes.
- IV. What is the Group and the Period that "J" belongs?
- V. Name the element with the relative atomic mass of 39.
- VI. Write the formula of the compound formed by the reaction between D and C.
- VII. What is the valency of "F"?