Term 1 - Revision

1. Which of the following foods contains monosaccharides?
   i. Sugar   ii. Germinating green gram seeds   iii. Honey   iv. Chicken

2. Which vitamin is useful for blood clotting?
   i. Vitamin A   ii. Vitamin D   iii. Vitamin E   iv. Vitamin K

3. A trace element that contains in organisms is,
   i. Magnesium   ii. Phosphorus   iii. Calcium   iv. Copper

4. Select which of the following molecules will be formed by hydrolysis of a sucrose molecule.
   i. Two Glucose molecules.   ii. A glucose molecule and a galactose molecule.
   iii. Two Fructose molecules.   iv. A glucose molecule and a fructose molecule.

5. Choose which unit of the relationships is equal to the unit of acceleration.
   i. Velocity $\times$ Time   ii. Velocity / time   iii. Force $\times$ Time   iv. Force / time

6. The acceleration of a moving object on a straight line is 0.2 m s^{-2}. What is the velocity achieved within a time of 10 seconds by that object?
   i. 0.2 m s^{-1} ii. 2 m s^{-1} iii. 20 ms^{-1} iv. 200 ms^{-1}

7. What is the answer that includes only vector quantities?
   i. Distance, Velocity, Acceleration   ii. Distance, Time, Speed
   iii. Velocity, Acceleration, Displacement   iv. Velocity, Acceleration, Speed

8. The number of protons in the element X is 16. What is its electronic configuration?
   i. 8, 6, 2   ii. 6, 2, 8   iii. 2, 6, 8   iv. 2, 8, 6

9. An element belonging to the 3rd period of the periodic table burns in air and forms an acidic oxide. What is that element?
   i. Sodium   ii. Magnesium   iii. Aluminum   iv. Sulfur

10. The chemical formula of the carbonate of the element M is M_2CO_3. What is the formula of chloride of M?
    i. MCl   ii. M_2Cl iii. MCl_2 iv. M_3Cl_2

11. Name four major elements which are involved in the formation of organisms.
    i. .... ii. .... iii. .... iv. ....

12. Which element constitute the highest percentage of human body mass? ....

13. Mention 3 important properties of proteins contain in living organisms.
    i. ....
    ii. ....
    iii. ....

14. If a cyclist takes 30 minutes to ride 5000m, What is his average speed?

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15. A coconut from a coconut tree is fallen to the ground within 5 seconds. If the gravitational acceleration is $10ms^{-2}$, find the velocity of the coconut when it lands to the ground.

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16. Fill in the blanks using the words in brackets (chemical, electrons, final, valency, vertical line).

The properties of an element depend on the number of ………………….. in its .... energy level. That number is called .... The elements which have an equal number of electrons in its final energy level are located in the same ………………… Those elements have more similar ………………. properties.

17. Write the answers considering the following table.

Element of 3rd period	Na	Mg	Al	Si	P	S	Cl
Oxide	Na_2O	MgO	Al_2O_3	SiO_2	P_2O_5	SO_2	Cl_2O_7

i. Name the amphoteric oxide. ………………………………..

ii. Name the most acidic oxide and the most basic oxide. ....

iii. Explain briefly how the properties of oxides changes from left to the right along a period.

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