3 | S | II

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Grade 10 – First Term Examination - 2023

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Science - I , II

කාලය 02

Two Hour

1. The international standard unit for velocity and Acceleration is?
   i) ms^{-1} , N ii) ms^{-2} , ms^{-1} iii) ms^{-1} , ma^{-2} iv) ns, ms^{-1}

2. The building unit of Nucleic Acid is?
   i) Monosaccharide ii) Nucleotide iii) Fatty acid iv) Glycerol

3. An amphoteric Oxide is?
   i) Al_2O_3 ii) Na_2O iii) SO_2 iv) CaO

4. What is the organelle indicating by the picture?
   i) Mitochondria ii) chloroplast iii) Golgi body iv) endoplasmic reticulum

5. Not a function of protein.
   i) As an enzyme ii) to protect water iii) to form antibodies iv) as a constituent

6. The international Standard unit for weight is ?
   i) g ii) kg iii) N iv) Nm

7. The element present in lipid but not in Nucleic Acid is;
   i) H ii) C iii) N iv) O

8. A scale quantity is?
   i) Distance ii) displacement iii) acceleration iv) velocity

9. The material which is giving bright flame and white powder with combustion.
   i) mg ii) Al iii) S iv) Ca

10. Which carbohydrate is giving Glucose and Fructose after digestion?
    i) sucrose ii) lactose iii) starch iv) maltose

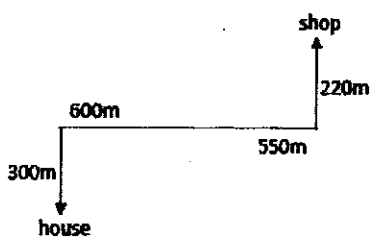
11. The sulfate of "M" element is M_2SO_4 and X hydroxide is $X(OH)_3$. What are the valences of "M" and "X" accordingly?
    i) 1 , 2 ii) 2 , 3 iii) 1 , 3 iv) 3 , 1

12. Diamond and Graphite considered as;
    i) Amorphous forms of carbon ii) Crystalline carbon
    iii) Allotropic carbon iv) Compounds

13. A typical cell is considered as;
    i) A cell which can divide
    ii) ii) A plant cell
    iii) iii) A cell which created based on electron microscopic information
    iv) An animal cell

14. The following diagram indicates the motion of a child from home to shop. Find the displacement and distance.

    i) 600m , 550m ii) 100 m , 200m
    iii) 1100m , 550m iv) 200 m , 600m



15. The vitamins and the mineral which are required to blood clotting accordingly;
    i) Vitamin A , Phosphorus ii) Vitamin B , Iron
    iii) Vitamin C , Lipids iv) Vitamin K , Calcium

16. Which method can't be used to increase friction?
    i) Making grooves on tires ii) Making rubber slippers with rough surface
    iii) Use broad tires for heavy vehicles iv) making grips on bicycle handles

17. Which element shows the highest electronegativity?
    i) Cl ii) Na iii) Ca iv) F

18. Find the acceleration of an 8kg object when 24N force is applied on it.
    i) 3 ms^{-2} ii) 2 ms^{-2} iii) 3 ms^{-1} iv) 192 ms^{-2}

(b) Which element has the lasts first lionization energy? (2)

(c) Which element shows allotrope forms? (2)

(d) Write the chemical formala of B and E (2)

(e) H has a lower frist ionization energy than D. What is the reason? (1)

(B) (i) What is brown as on isotope? (2)

(ii) Write the valences of C and E accordingly (2)

(iii) Write the electronic configuration of K (1)

(iv)

	$^{16}_{8}O$	$^{18}_{8}O$
Agamic Number		
Mass Number		
Number of Neutrons		

(C) (i) Give one example for a metalloid (1)

(ii) What element is used for vulcanization of Number? (1)

(iii) What element is used to make diodes? (1)

(iv) Write the chemical Formica of on Amphoteric compound

(v)

Oxide	Na_2O	MgO	Al_2O_3	SiO_2	P_2O_5	SO_2	Cl_2O_7

(a) What is the amphoteric oxide from the above oxide

(b) Whish oxide shows strong Basic condition.

(i) If the mass of above object is 2 kg what is the perpendicular force acuity on an object from the table.

(ii) When 7 N appliay on object. What is the acceleration of the object.

(iii) Explain What is 1 N