Ydka; mS;r úÿy, - fld<U 04

புனித பேதுரு கல்லூரி, கொழும்பு 4

***St. Peter's College - Colombo 04***

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**Science**

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**One hours**

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**தரம் 10 - முதலாந் தவணைப் பரீட்சை (Kjyhk; jtiz) - 2022**

***Grade 10 – Special Evaluation (First Term) - 2022***



**Part - II**

* **Answer only 3 questions.**

01. A. i. What are the most common 04 elements in the living body. **(02)**

ii. Write down 04 types of biological molecules. **(02)**

iii. Write down one significance to each of these biological molecules. **(04)**

iv. Write down how to identifying glucose by using the benedict solution. **(02)**

v. What are the colour changes in that activity. **(02)**

B. i. Write down deficiency symptoms for the each element separately.

a. Sodium **(01)**

b. Magnesium **(01)**

c. Iron **(01)**

ii. Write down the vitamin caused the below mentioned deficiency symptoms.

a. Night blindness **(01)**

b. Scurvy **(01)**

c. Beri beri **(01)**

C. Write down 02 specific properties in water for the continuation of life. **(02)**

02. A. i. Write down the meanings of Atomic number and atomic mass number. **(02)**

ii. Draw the electronic configuration of O atom (Atomic number is 8) **(02)**

iii. Atomic number of Cl is 17 and the atomic mass number is 35. Write down this data in standard form. **(02)**

B. Write down the formulas for the below mentioned compounds.

a. Sodium Oxide **(01)**

b. Calcium Carbonate **(01)**

c. Ammonium Sulphate **(01)**

C. i. Write down 02 physical or chemical properties of Na metal. **(02)**

ii. Write down 02 uses of Na metal. **(02)**

iii. How does this metal stored. **(02)**

D. i. Write down the meaning of first ionization energy. **(02)**

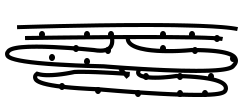
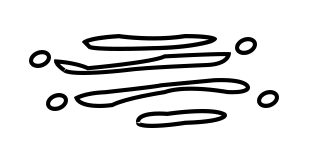
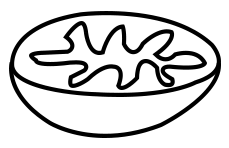
ii. Which group of periodic table is having the highest first ionization energy. **(02)**

iii. What is the scale is using to measure electronic negativity. **(01)**

03. i. Write down 03 contents of cell theory. **(02)**

ii. Explain briefly how to prepair a slide of a plant tissue by using an onion. **(03)**

iii. Write down the names of the below mentioned organelles and give one function of each of them. **(06)**



**A**

**B**

**C**

iv. What are the organelles are present in plant cell but absent in animal cell. **(02)**

v. Write down 02 methods of cell division. **(02)**

vi. Which division is take place when the gamates are forming. **(02)**

vii. Write down 02 differences between these 02 methods. **(02)**

04. A. The below mentioned table indicates a motion of an object.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Time (s)** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| **Displacement** | 4 | 8 | 12 | 16 | 20 | 20 | 20 | 20 | 10 | 0 |

i. Draw the displacement - time graph for the above motion. **(02)**

ii. Find the uniform velocity in first 5 second **(02)**

iii. Find the uniform velocity during last 2 seconds. **(02)**

iv. What is the total distance travelled in this journey? **(02)**

B. i. Write down the meaning of the below mentioned quantities.

a. Displacement b. Acceleration

ii. The below mentioned velocity time graph indicate a liner motion of an object.

**Velocity**

**(ms-1)**

20

0

30

90

100

**Time** **(S)**

a. Explain the motion of the object. **(03)**

b. Find the acceleration of the object **(02)**

c. Find the whole displacement. **(03)**