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12/10/21 Common First Term Summative Exam-2019

Science

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VII

Section-1.

I. Choose the correct Answer:

- 1) 13600 Kg/m
 2) area
 3) 2Y
 4) mercury
 6) ~~5)~~ 1.6726×10^{-27} Kg
 7) ~~6)~~ Both of them
 5) ~~7)~~ electron
 8) periodontitis
 * 9) Illustrator
 10) Budding

Section-2.

II. Answer any 15 questions [short answer].

11) One Astronomical Unit defined as the average distance between the earth and the sun.

$$1 \text{ AU} = 14.96 \text{ Million km} \\ = 14.96 \times 10^6 \text{ km} = 1.496 \times 10^{10} \text{ m.}$$

12) a) 10cc, 100cc, 1L, 10L b) Aluminium, Iron, Copper, gold

13) a) Iron
 b) m³

14) The centre of gravity of an object is

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the point through which the entire weight of the object appears to act.

15? Match the following:

- a? Displacement - Meter.
- b? Speed of ship - Knot.
- c? Light travel through vacuum - uniform
- d? Stability - Larger base area, \downarrow velocity.

17? * Metalloids exhibit the properties of both metals and non-metals.

* Metalloids, silicon and Germanium are semi conductors.

* Metalloids mixed with metals can form alloys.

18? Matter in its simplest form is called an element.

19? Match the elements and symbols.

- a? Iron - Fe
- b? Potassium - ~~At~~ K
- c? Sodium - Na
- d? Lead - Pb

20? An atom is the smallest particle of a chemical element that retains its chemical properties.

21? a? ele
b? nu

22? * Val
atom
num
valen

23? * Ther
form

* Lea
into

* T
from
in

26? H
the
pro
ex
of
d

29? F
L
L

30?

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weight

21) a) electrons
b) number of protons or electrons

22) * Valency is the combining property of an atom. Oxygen symbol is O, Atomic number is 8, Mass number is 16, and valency is 2.

m
Locality.

23) * Thorns are pointed and sharp structures formed in a plant.

both

* Leaves other parts may be modified into thorns.

n are

* It helps the plant to safeguard its from animal. Thorn may also help in climbing.

from

led on

26) Hygiene refers to the good habits and their practices which are followed to prevent diseases, maintain good health, especial through cleanliness consumption of safe drinking water and proper disposal of sewage.

29) Raster Graphics are created on the basic of "Pixels". The photos taken by camera and the layers or grids.

of a
chemical

30) Folder is a storage space that contains multiple files.

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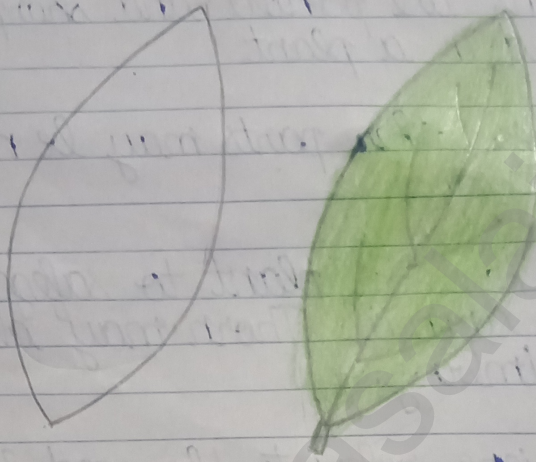
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Section - 3.

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a)

Place on a graph sheet and draw the outline of the leaf with a pencil. Remove the leaf. you can see the outline of the leaf on the graph sheet.



- (i) Now, count the number of whole square enclosed within the outline of the leaf. Take it as M .
- (ii) Then, count the number of squares that are more than half. Take it as N .
- (iii) Next, count the number of squares which are half of a whole square. Note it as P .
- (iv) Finally, count the number of squares that are less than half. Let it as Q .

Now, the approximate area of the leaf

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can be calculated using the following formula.

Approximate area of the leaf
 $= M + \left[\frac{3}{4} \right] N + \left[\frac{1}{2} \right] P + \left[\frac{1}{4} \right] Q$ square cm.
 Area of the leaf = $52 + 5.25 = 58.25 \text{ m}^2$
 $0.58.25 \text{ Sq. cm.}$

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Q.7 Atomic number $A = 26$ Mass number $A = 56$ No. of protons $P = ?$ No. of electrons $= ?$ No. of Neutrons $N = ?$

Name of the element is Iron [FE].

No. of proton $[P] = 26.$ No. of proton $[P] = 26.$ Mass number $A = n + P$

$$56 = n + 26$$

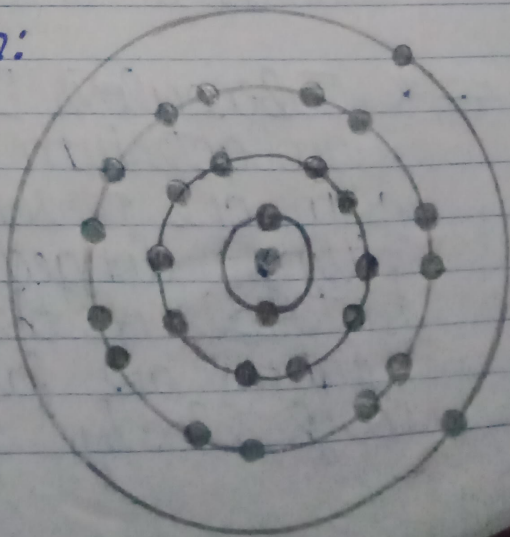
$$n = 56 - 26$$

 \therefore No. of neutrons $n = 30$

In an element No. of protons and No. of electrons is equal.

 \therefore No. of electrons = no. of protons
 $= 26.$

Structure of Iron:



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In some plants like grasses, pollen grains are light. Stamens shed pollen grains, and are carried by wind to other flower. Insects, birds are also agents of pollination. Bees, butterflies and variety of birds hover around flowers. They help to carry pollen from one flower to another. Pollen grains stick to their legs, wings and abdomen when they move from one flower to another. This is called as cross pollination.

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a) * Typhoid is caused by *Salmonella typhi* and spreads by contaminated food and water. The symptoms are anorexia, headache, rashes on abdomen, dysentery and high fever up to 104°F .

b) * Cholera is caused by *Vibrio cholerae* and spread through the ~~consumption~~ consumption of contaminated food or water. The symptoms of cholera is vomiting, severe diarrhoea and cramps in legs.

c) * Tuberculosis [TB] is caused by *Mycobacterium tuberculae* and spreads from one person to person through air, spitting, prolonged contact and sharing materials of the ~~person~~ patient. The symptoms are fever, weight loss, chronic cough, bloody spitting and difficulty

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in breathing.

- * Typhoid prevention and treatment
 - > Drinking boiled clean water.
 - > Proper disposal of sewage.
 - > Vaccination.
- * Cholera prevention and treatment
 - > Drinking boiled water.
 - > Getting vaccination against Cholera.
- * Tuberculosis Prevention and treatment
 - > BCG Vaccination.
 - > Regular medication like DOTS.