

Shadley Public School

Revision Assignment (2019-20)

Science (class X)

Qus-1 Balance the following Reactions

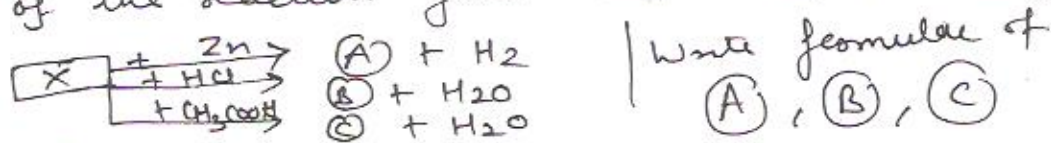
- (A)  $Cu + O_2 \rightarrow CuO$       (B)  $Na + S \rightarrow Na_2S$   
 (C)  $KI + Cl_2 \rightarrow KCl + I_2$       (D)  $Fe_2O_3 + Al \rightarrow Al_2O_3 + Fe$   
 (E)  $N_2 + H_2 \rightarrow NH_3$       (F)  $Hg \rightarrow Hg + O_2$   
 (G)  $Ag + Cl_2 \rightarrow AgCl$       (H)  $Zn + H_2SO_4 \rightarrow ZnSO_4 + H_2$

Qus-2 What are the various ways in which a chemical equation can be made more informative. Give Examples to illustrate your answer

Qus-3 For making cake, baking powder is taken if at home your mother uses baking soda instead of baking powder

- (1) How it affects the taste of cake & why
- (2) How baking soda be converted into baking powder
- (3) What is the role of Tartaric acid adding to baking soda

Qus-4 Identify the compound 'X' on the basis of the reaction given below. Write the full reaction



Qus-5 Give Reasons

- Platinum, Gold, Silver used for Jewellery
- Sodium, Potassium, Lithium stored in Kerosene
- Aluminium is highly reactive, still used to make utensils for cooking

Qus-6 (a) Metal 'A' used in Thermite process & gives an oxide 'B' which is amphoteric in nature write down the reaction & its uses

(b) Explain Roasting, Calcination

Qus-7 An Element 'P' belongs to third period & gp. 2  
 Give reason state (a) no. of valence electrons (b) Valency (c) Nature of Element & (d) Electronic Configuration of 'P'

Qus-8 state Dobereiner's Law of Triads. Give examples of triads. Explain Mendeleev's Periodic Table. List any two advantages & anomalies also

Qus-9 write laws of refraction. Explain the same with the help of ray diagram when a ray of light passes through a rectangular glass slab

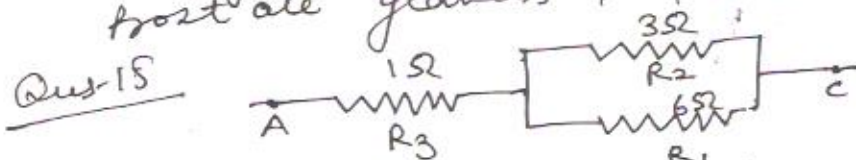
Qus-10 Define Power of lens. Write its S.I. unit  
A student uses a lens of focal length 40 cm and another 20 cm. Write the nature & power of each lens

Qus-11 Draw the diagram of alimentary canal & explain the function of digestive system

Qus-12 list in tabular form diff. between aerobic & anaerobic respiration, artery & veins, blood & lymph

Qus-13 with neat diagrams explain the process of budding, fragmentation, regeneration, spore formation (Asexual reproduction)

Qus-14 state the method of reproduction followed by human being. Describe briefly the role of Testis, ovaries, prostate glands, Placenta



Calculate the total resistance of the network shown in the figure

Qus-16 Which uses more energy, a 250 W TV set in 1 hour or 1200 W toaster in 10 minutes

Qus-17 Consider a circular loop of wire & current pass through it clockwise. Apply right hand rule to find the direction of Magnetic field.

Qus - Two coils A & B placed close to each other. If current in coil A is changed, will some current induced in B. Why