



HOLIDAY HOME WORK
CLASS- XII Biology (2020-21)

Let's Pen The Pandemic: Covid-19

"A dream doesn't become reality through magic. It takes determination and hard work."

General instructions:

- Revise the lessons done in all subjects.
- Complete the given Activity work on A4 size sheets, subject wise and keep it in a folder. Remember to write your name and class.

Hindi Core

1. प्रेमचंद और मीर का जीवन परिचय चार्ट पेपर पर लिखें?
2. नमक का दरोगा और मिया नसरुद्दीन पाठ का सारांश लिखें।
3. निबंध लिखें।
 - a. मेरा प्रिय कवि
 - b. भारत गांवों का देश
 - c. मेरी अविस्मरणीय यात्रा
 - d. बाल मजदूरी एक अभिशाप
4. प्रश्न: अपने क्षेत्र में पेड़-पौधों के अनियंत्रित कटाव को रोकने के लिए अपने जिलाधिकारी को एक प्रार्थना-पत्र लिखिए।
5. प्रश्न: अपने मोहल्ले में वर्षा के कारण उत्पन्न हुई जल-भराव की समस्या की ओर ध्यान आकृष्ट कराने के लिए नगरपालिका के स्वास्थ्य अधिकारी को पत्र लिखिए।

Biology

1. write assignment on corona virus in detail with diagram (assignment should be systematic)
2. Write and learn NCERT Q/A of chapter 2nd, 3rd with diagram

Chemistry

Answer the Following Questions:-

Q.1 For an elementary reaction $2A \rightarrow B + 3C$ the rate of appearance of C at time t is $1.3 \times 10^{-4} \text{ mol l}^{-1} \text{ s}^{-1}$ calculate at this time.

(i) Rate of the reaction

(ii) Rate of disappearance of A

Q.2 Predict if the reaction between the following is feasible:-

(i) $\text{Fe}^{3+} (\text{aq})$ and $\text{I}^{-} (\text{aq})$

(ii) $\text{Ag}^{+} (\text{aq})$ and $\text{Cl}^{-} (\text{aq})$

(iii) Fe^{3+} and $\text{Br}^{-} (\text{aq})$

(iv) Ag(s) and Fe³⁺ (aq)

(v) Br₂ (aq) and Fe²⁺ (aq)

Q.3 How much electricity in terms of Faraday is required to produce.

(i) 20.0g of Ca from molten CaCl₂

(ii) 40.0g of Al from molten Al₂O₃

Q. 4 Calculate the mass percentage of benzene (C₆H₆) and Carbon tetrachloride (CCl₄) if 22g of benzene is dissolved in 122g of Carbon tetrachloride.

Q.5- Calculate the mass ascorbic acid (Vitamin C, C₆H₈O₆) to be dissolved in 75g of acetic acid to lower its melting point by 1.5°C. $K_F = 3.9 \text{ K kg mol}^{-2}$

Q.06- Amongst the following compounds, identify which are insoluble, partially soluble and highly soluble in water. (i) Phenol, (ii) Toluene (iii) Formic acid (iv) ethylene glycol (v) chloroform (vi) pentanol

Q.07- Calculate the value of Avogadro's number from the following data:- Density of NaCl = 2.165 g cm⁻³.

Distance between Na⁺ and Cl⁻ in NaCl = 281 pm

Q.08- Which of the following lattices has the highest packing efficiency?

(i) Simple cubic (ii) body centre cubic (iii) Hexagonal close – packed lattice

Q.09- What type of stoichiometric defect is shown by:- (i) ZnS (ii) AgBr

Q.10- Silver crystallizes in FCC lattice. If the edge length of the cell is $4.077 \times 10^{-8} \text{ cm}$ and density 10.5 g cm⁻³. Calculate the atomic mass of silver.

NOTE: FOR ANY QUERY CONSULT YOUR SUBJECT TEACHER'S
