MPVM GANGAGURUKULAM

Holiday homework – Chemistry – Class 11 Session – 2025 -26

- **1.** Prepare a chart to show the importance of chemistry, also show the deferent discipline of chemistry.
- **2.** Prepare a list of 5 soaps and detergents with their concentration terms written in labels and explain the concentration terms used.
- 3. What were the Philosopher's stone (Paras) and 'Elixir of life?
- **4.** In ancient India what was other name of chemistry?
- 5. Explain about chemicals found in Mohenjodaro and Harappans culture.
- **6.** Write the work of -Kautilya's Arthashastra, Rigveda, ancient Vedic literature, Sushruta Samhita, Charaka Samhita and Rasopanishada in chemistry.
- **7.** What was the contribution of Ngarjuna, Chakrapani and Varähmihir's Brihat Samhita in chemistry?
- **8.** reaction, CaCO3 (s) + 2 HCl (aq) \rightarrow CaCl2 (aq) + CO2 (g) + H2 O(l) .What mass of CaCO3 is required to react completely with 250 mL of 0.5 M HCl?
- **9.** A welding fuel gas contains carbon and hydrogen only. Burning a small sample of it in oxygen gives 3.38 g carbon dioxide, 0.690 g of water and no other products. A volume of 10.0 L (measured at STP) of this welding gas is found to weigh 11.6 g. Calculate (i) empirical formula, (ii) molar mass of the gas, and (iii) molecular formula.
- **10.** In a reaction $A+B2 \longrightarrow AB2$. Identify the limiting reagent, if any, in the following reaction mixtures.
 - (i) 300 atoms of A + 200 molecules of B
 - (ii) 2 mol A + 3 mol B
 - (iii) 100 atoms of A + 100 molecules of B
 - (iv) 5 mol A + 2.5 mol B
 - (v) 2.5 mol A + 5 mol B