GREENLAWNS SCHOOL, WORLI TERMINAL EXAMINATION: 2020-21 CHEMISTRY

| Std: VIII Date: 05/10/2020 | Marks: 40 Time: 1.5 hr |
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| SUBJECTIVE QUESTIONS (40 marks) | |
| Q.1) Explain the following terms: a) Relative atomic mass b) Symbol c) Sublimation d) Law of conservation of mass e) Mass number | [5] |
| Q.2) An atom of an element X has 2 electrons in its N-shell. a) State its electronic configuration b) Is it a metal or non-metal? c) State the number of protons in X. d) State the number of neutrons in X if its mass number is 40. e) Identify 'X'. | [5] |
| Q.3) Draw the atomic structure of the following elements and give the necessary a) $^{24}Mg_{12}$ b) $^{11}B_5$ | ary information: [5] |
| Q.4) Write the formula of the following compounds: a) Calcium bicarbonate b) Mercury (I) chloride c) Aluminium sulphide | [2½] |
| Q.5) Write the names of the following compounds: a) K₂PbO₂ b) Ca₃(PO₄)₂ c) NH₄OH c) NH₄OH | [2½] |
| Q.6) Balance the following chemical equations: a) $NH_3 + O_2 \rightarrow NO + H_2O$ b) $Cu + HNO_3 \rightarrow Cu(NO_3)_2 + H_2O + NO$ c) $Pb_3O_4 + HCI \rightarrow PbCl_2 + H_2O + Cl_2$ d) $C_{12}H_{22}O_{11} \rightarrow C + H_2O$ | [4] |
| Q.7) Write balanced molecular equations for the following word equations: a) Magnesium + Hydrochloric acid → Magnesium chloride + Hydroger | [6] |

- b) Iron + Chlorine → Iron [III] chloride
 c) Sodium carbonate + Water → Sodium hydroxide + Carbonic acid

| Q.8) Compare the characteristics of the three states of matter on the basis of: a) Compressibility b) Inter-molecular attraction c) Density | [3] |
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| Q.9) Write down the contradictions of Dalton's atomic theory with Modern atomic theory. | [3] |
| Q.10) State the information provided by a chemical equation. | [2] |
| Q.11) Draw atomic orbital diagram to show the formation of Sodium chloride by the transfer of electrons. | [2] |
