

SOVARANI MEMORIAL COLLEGE
Internal Assessment - 2021
SEMESTER - 3 (H)
Subject - Chemistry
Paper - CC-3-6

Time - 30 minutes

F.M - 10

Answer any 10 (ten) questions (1x10) = 10

1. State any two factors governing the electronegativity of an atom.
2. What is the major source of He?
3. $\text{XeF}_4 + 12 \text{H}_2\text{O} \rightarrow \text{A} + \text{B} + \text{HF} + \text{O}_2$. Identify A & B
4. Give one example of polyhalide and pseudohalogen.
5. Why the first ionization potential value decreases from P to S?
6. Mention the most important property of polythiazyl.
7. What is the hybridisation of B in B_2H_6 ?
8. Give the molecular formula of azidopentaamminechromium(III) chloride.
9. Which allotrope of carbon is used as moderator in atomic reactors?
10. Iodine is more soluble in water in the presence of iodide salt due to formation of a species. Identify it.
11. Identify the product 'X' in the following reaction:
$$\text{PCl}_5 + \text{NH}_4\text{Cl} \xrightarrow{\Delta} \text{'X'} + \text{HCl}$$
12. What is the effective nuclear charge of a valence electron in Li atom?
13. Give any two uses of the noble gas which is most abundant in air.
14. Which one of the following is most powerful oxidant?
 HClO , HClO_2 , HClO_3 , HClO_4 .
15. Elements of which groups show inert pair effect?