2021 CHEMISTRY

Total marks: 70 Time: 3 hours

General in	strii	ctio	ns

- *i)* Approximately 15 minutes is allotted to read the question paper and revise the answers.
- ii) The question paper consists of 30 questions. All questions are compulsory.
- iii) Marks are indicated against each question. α iv) Internal choice has been provided in some questions.

N.B: Check that all pages of the question paper is complete as indicated on the top left side.

1.	Which of the following has the highest electronegativity? (a) Li (b) Be (c) B (d) C	1
2.	Boyle's law states that (a) $V \alpha T$ (b) $P \alpha \frac{1}{V}$ (c) $P \alpha T$ (d) $V \alpha n$	1
3.	For the process to occur under adiabatic condition, the correct condition is (a) ΔT =0 (b) ΔP =0 (c) q = 0 (d) W = 0	1
4.	During oxidation, the oxidation number of element (a) increases (b) decreases (c) does not change (d) unpredictable.	1
5.	In group – 14, the inert pair effect is most prominent in (a) tin and lead (b) carbon and silicon (c) silicon and germanium (d) all of them.	1
6.	State the law of multiple proportions.	1
7.	Write the general electronic configuration of d – block elements.	
8.	State Dalton's law of partial pressure.	1
9.	Define standard enthalpy of formation.	1
10.	State Bronsted – Lowry concept of acids and bases.	1



