



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL



Pre-MidTerm-Test 2025-26

Class : XII

CHEMISTRY (043)

Duration: 1 Hr

Date : 05/8/2025

Max. Marks: 25

Admission No.:

Answer key

Roll No.:

General Instructions:

- There are 12 questions in all. All questions are compulsory.
- This question paper has three sections: Section A, Section B and Section C.
- All the sections are compulsory.
- Section A contains five questions of 1 mark each, out of which one question is assertion and reasoning type question.
- Section B contains four questions of two marks each, Section C contains four questions of three marks each.
- There is no overall choice. Use of calculators is not allowed.

SECTION-A

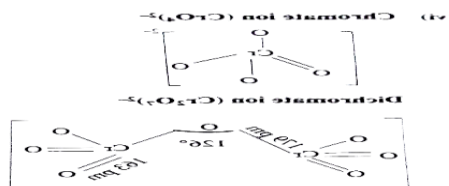
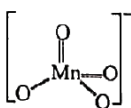
- (a) Mn^{2+} 1
- (d) all of these. 1
- (b) 1, 6 1
- (b) Linkage isomers 1
- (d) 1

SECTION – B

- common os is +3 has unpaired electron 2
 - Max no. of electron are unpaired and inter atomic forces are strong.
- Max no. of electron are unpaired and the show d-d transition. 2
 - decrease in size by increasing atomic number in periods
- same kind of ligands different kinds of ligands 2
- tetraammine aqua chloride cobalt(III) chloride (ii) Potassium tetrahydroxidozincate (II) 2

SECTION C

10.



11. (i) Fe^{3+} (ii) Sn^{4+} (iii) S 3
12. d^2sp^3 , Octahedral, inner orbital complex, diamagnetic low spin and colourless.
13. Primary valencies 2, 2, 1, 1 and 0
secondary valences 4, 6, 6, 6 and 4. 3

-----ALL THE BEST-----