

NCB Official Analyst)	Cadre (Lab CME-09	<p style="text-align: center;"><b><u>Written and Skill Test</u></b></p> <p><b>Professional Subjects</b> <b>Introduction to Chemistry</b></p> <ul style="list-style-type: none"><li>• Periodic Table: Trends and periodic properties.</li><li>• Chemical Bonding: Ionic, covalent, and steel bonds.</li><li>• Acids and Bases: Definitions, strengths, and pH.</li><li>• Chemical Reactions: Types and balancing equations.</li></ul> <p><b>Environmental Chemistry</b></p> <ul style="list-style-type: none"><li>• Introduction to Green Chemistry</li><li>• Sample collection techniques (Air, Water, Soil)</li><li>• Basic Analytical Techniques (Ambient Air, Stack, Water &amp; Waste Water)</li><li>• Interpretation of results</li></ul> <p><b>Environment Studies</b></p> <ul style="list-style-type: none"><li>• Biogeochemical Cycles: Carbon, nitrogen, water cycles.</li><li>• Biodiversity: Levels, importance, threats to biodiversity.</li><li>• Environmental Issues: Global warming &amp; Climate Change and its implications, habitat destruction,</li><li>• Environmental (Air, Water, Land, Noise) pollution, sources, causes, consequences and controls.</li><li>• Introduction of pollution control techniques.</li><li>• Sustainable Development: SDGs, Principles, practices</li><li>• Environment Impact Assessment &amp; methods</li><li>• Solid Waste Management</li></ul> <p><b>Environmental Regulations and Compliance in India:</b></p> <ul style="list-style-type: none"><li>• Environment Laws (Environment Protection Act; Air (Prevention &amp; Control of Pollution) Act; Water (Prevention and control of Pollution) Act)</li><li>• Emission limits of pollutants in Air, water and limits specific to Cement Industry.</li><li>• Overview of UNFCCC, COP 21 &amp; COP 26.</li><li>• Introduction to requirements of ISO 17025:2017</li></ul> <p><b>General Subjects</b></p> <ul style="list-style-type: none"><li>• <b>General Arithmetic:</b> Number Systems, Decimals, Fractions, LCM, Ratio and Proportion, Time and Distance, Algebra</li><li>• <b>General Intelligence and Reasoning:</b> Analogies, Coding-Decoding, Venn Diagrams, Logical Reasoning</li><li>• <b>General Science:</b> Physics, Chemistry, Life Sciences (up to 10th standard)</li></ul>
-----------------------------	-------------------------	--