

OFFICE OF *THE URANIUM* , Friends' Colony, Cuttack

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**ONLINE UTSE-2021 for Class- XI on
Language of Chemistry(LOC) &
Basic Concepts in Chemistry(BCC)**

Test Date: 4th July 2021 during 7 am to 8 am

(Based on the discussion made in the 7-Day online camp held during 15-21, May 2021, the MCQs will be set for the test.)

There will 50-60 MCQs to be answered in 80 minutes.

The Online Examination will be conducted in the Gradeazy platform.

Who can appear the test?

Any class XI student of Odia/English Medium medium schools irrespective of whether the candidate has attended the 7-day camp or not.

Examination Fees: FREE Registration for Enrolling to appear the Test:

For new registrations, the candidates have to write us in WhatsApp their names, mobile numbers, School in which studying, Address of School, EMAIL ID.

The test score will be available to the candidate after the submission of test paper. But rank list will be published by 10th July, 2021. Medals and certificates to the top 10 or more will be given only on qualifying the test.

Topics for the Test (based on the discussion in the camp)

Language of Chemistry(LOC):

Formula writing, Solubility Rules, Ionic Equations, Oxidation Number, paradoxical ON, Oxidation-Reduction in the light of ON; OA and RA in redox reactions, Metathesis reactions(11 type), Redox reactions(displacement, Thermal decomposition, Combustion, Disproportionation and Comproportionation reactions, Combination(synthesis) reactions, Redox reactions using common OAs and RAs.

Balancing of Redox equations by ON method(EBD method), ionic equations by ion-electron method.

Basic Concepts in Chemistry(BCC): Mole Concept, Atomic and Molecular Masses, Simple stoichiometry involving mole, mass, volume of gases; Limiting Reactant Concept, Purity of samples, Successive Reactions, Composition of a mixture, POAC approach, Gas analysis and Eudiometry,

Concentration of solutions: % strength(W/W, W/V), Molarity, molality, Mole fraction, Stoichiometric calculations involving concentrations of solutions.

(N.B: Equivalent Concept, Normality of solutions and volumetric analysis involving titrations are excluded)

Link to the YouTube videos for the 7-days

1 st Class : <https://youtu.be/UTUW-9XsHho>

2 nd Class : <https://youtu.be/SN1A9hmWiAw>

3 rd Class : <https://youtu.be/ncvm8vRGPPs>

4 th Class : <https://youtu.be/xUEQELt5dGo>

5 th Class : <https://youtu.be/dfYDVq-dKlw>

6 th Class : <https://youtu.be/Me2huhyJAxM>

7 th Video : <https://youtu.be/eZATpvudegk>