

CL54\_Q1. Discuss the concept of centro-symmetry in crystals.

CL54\_Q2. What structural changes are observed in  $\text{BaTiO}_3$  with change in temperature and explain why it losses spontaneous polarization above Curie temperature.

CL54\_Q3. In what way do ferroelectrics differ from ordinary dielectrics?

CL54\_Q4. Discuss the  $\text{BaTiO}_3$  unit cell in the ferroelectric phase.

CL54\_Q5. Draw the unit cell structure of Barium titanate when it is in the paraelectric phase when no electric field is applied to it.

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