

Roll No.

23260

**M. Tech. 1st Semester (Electrical Engg)
Specialisation : Electrical Power Systems**

Examination – December, 2014

**REACTIVE POWER COMPENSATION AND
MANAGEMENT**

Paper : MTEPS - 104

Time : Three Hours]

[Maximum Marks

*Before answering the questions, candidates should ensure that
they have been supplied the correct and complete question paper.
If any complaint in this regard, will be entertained after examination.*

Note : Attempt any *five* questions. All questions

3. Explain compensation using synchronous condensers.
4. Discuss basic concepts of quality of power systems.
5. Discuss KVAR based tariffs penalties for voltage and harmonic voltage levels.
6. What are various system losses and reduction methods.
7. Explain the optimal placement and sizing of capacitor.
8. Explain electric arc furnace in detail.

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