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Roll No

MEPS - 104 M.E./M. Tech., I Semester

Examination, June 2016

Power Electronics Applications to Power Systems

Time: Three Hours

Maximum Marks: 70

Attempt any five questions. Note: i)

- All questions carry equal marks.
- What is the significance of load flow study? Explain.
 - What do you mean by reactive power capability of an alternator?
- Write down the algorithm for finding bus admittance matrix.
 - What is loadability? Explain with respect to a transmission line.
- Discuss the various losses associated with transmission
 - What do you understand by sensitivity analysis? Discuss its importance.
- 4. What do you mean by generation shift distribution and line outage distribution factors? Also mention their significance.
- Why security is necessary in power system, what are the different levels. Explain in detail.
 - What is contingency selection?

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6. Explain about

- Transient stability model of TCSC.
- Modes of operation of TCSC.
- What do you understand by flexible ac transmission system?
 - b) Explain about the configuration and operating characteristics of TCR.
- 8. Write short notes on any two
 - Capability curve of an alternator
 - Regulated shunt compensation
 - Proximity indicators

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