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Roll No

MEPE-302(A) M.E./M.Tech., III Semester

Examination, December 2016

Computer Aided Power Electronics Analysis and Design (Elective - II)

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- What do you understand by power electronics simulation? Write the various method of analysis and formulation of system equation.
- How power electronics system element are modelled in computers analog with system equation.
- 3. What are the various power electronics simulink packages? Explain the sequential methods of simulation.
- 4. Explain in details Spice and its working.
- How efficient computation is done in computers with the help of advance techniques.
- 6. Write short notes on:
 - i) Creation of data files for power semiconductors
 - ii) Magnetic and capacitor

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- 7. a) What do you understand by Graph theory?
 - b) Discuss the Design of protection circuit.
- 8. Write short notes on any two of the following:
 - a) Modeling of stray inductance
 -) Thermal modeling
 - c) Heal Flow design

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i) Creation of do

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of advance techniques.