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

Examination, June 2017

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.

1. What is power electronics simulation? Describe methods of analysis and formulation of system equation.
2. What do you understand by modelling of power electronics system elements and discuss the computer formulation of power electronics system equations?
3. a) Explain the Graph theory.
b) Discuss spice.
4. a) Explain the application of auto sec.
b) Discuss the relevance of simulink for power electronics converter analysis.
5. a) What is digital optimization.
b) Explain sequential methods for simulation.

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6. a) What are the advance techniques for efficient computation.
b) How can be create data files for power semiconductor.
7. Describe the modeling of stray inductance and capacitances and its connections.
8. Discuss the thermal modeling under abnormal fault conditions and also describe design of protection circuits.

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