NR

Code No: A4906

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.TECH I - SEMESTER EXAMINATIONS, APRIL/MAY-2012 ENERGY CONVERSION SYSTEMS (ELECTRICAL POWER ENGINEERING)

Time: 3hours Max. Marks: 60

Answer any five questions All questions carry equal marks

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- 1.a) Explain solar cell configurations.
 - b) Give applications of super conducting materials in electrical equipment systems.
- 2.a) Give Principles of MHD power generation.
 - b) Explain MHD technology.
- 3. Discuss types of Wind turbines in detail.
- 4.a) Give Properties of Waves turbines and Power content.
 - b) Explain Vertex motion of waves.
- 5.a) Explain Principles of EMF generation.
 - b) Discuss Global energy position and environmental effects.
- 6.a) What are the types of fuel cells and explain any one of them in detail.
 - b) Explain Environmental effects of energy conversion systems.
- 7. Discuss types of ocean thermal energy conversion systems in detail.
- 8. Write short notes on
 - a) Batteries
 - b) Global energy position
 - c) Photo current
