

## **RURAL ENERGY SYSTEMS (RDL 722)**

### **MAJOR EXAM (2009-10 SEM II)**

**Date: 6.05.2010**

**Time: 2 Hours**

**MM 40 Marks**

**Note: Attempt any 8 questions. All questions carry equal marks.**

1. How rural energy requirements can be met sustainably from locally available resources in efficient manner? Give your ideas.
2. What is the composition of biogas? What are different entrepreneurial avenues in biogas sector in rural areas?
3. What are the challenges in rural areas related to energy supply and demand? How a success model of rural energy systems can be build?
4. How business model can be developed for rural industrial estate for energy supply in rural areas?
5. Describe biodiesel and biogas production processes.
6. How can we harness animal and human muscle power efficiently? Describe with two examples for each case?
7. Discuss and compare energy intensive life style with energy conservative life style and their environmental repercussions.
8. How solar energy is useful to us in many ways in rural areas? What are the solar based power generation technologies?
9. What is biomass gasification? Describe various types of biomass gasifiers.
10. What do you understand by micro hydel system? How it is used for harnessing mechanical power?